

# **FEDERAL ITEM IDENTIFICATION GUIDE**

## **RINGS - LOCKING, PIPE JOINT WELDING, AND MISCELLANEOUS HARDWARE**

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Commander

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BY ORDER OF THE DIRECTOR

/s/

Commander

Defense Logistics Information Service

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## GENERAL INFORMATION

### 1. Purpose and Scope

This Federal Item Identification Guide (FIIG) is a self-contained document for the collection, coding, transmittal, and retrieval of item characteristics and related supply management data for an item of supply for logistical use. This FIIG is to be used to describe items of supply identified by the index of approved item names appearing in this section.

### 2. Contents

This FIIG is comprised of the following:

- Index of Approved Item Names Covered by this FIIG
- Applicability Key Index
- Section I - Item Characteristics Data Requirements
- Section III - New text that should be here.
- Appendix A - Reply Tables
- Appendix B - Reference Drawing Groups (as applicable)
- Appendix C - Technical Data Tables (as applicable)

#### a. Index of Approved Item Names Covered by this FIIG:

The index lists the approved item names with definitions and item name codes as they appear in Cataloging Handbook H6, applicable to this FIIG. In addition, each name entry is assigned an applicability key for use in relating the characteristics requirements in Section I to the specific item name.

#### b. Applicability Key Index:

The purpose of this index is to provide the user with a ready reference for determining the specific requirements which are applicable to a given approved item name. This index lists all requirements in sequence as they appear in the FIIG. The applicability of a Master Requirement Coded requirement is indicated by the column headed by the specific item name applicability key as follows:

- (1) The letter "X" indicates the requirement must be answered for a full descriptive item.
- (2) The letters "AR" indicate the requirement is to be answered as required by (1) instructional notes within the FIIG; (2) when the reply is predicated on replies to a related main requirement; or (3) when an asterisk (\*) is used in conjunction with the applicability key column in Section I.
- (3) A blank in the column indicates the requirement is not applicable to the specific item name.

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### c. Section I - Item Characteristics Data Requirements:

This section contains the physical and performance characteristics requirements needed to describe and identify an item of supply. These characteristics differentiate one item from all other items of supply and are to be used to meet the needs of all supported functions. This section is arranged in columns. Identification of each column and instructions pertinent thereto are as follows:

#### (1) Applicability Key:

The first column shows the applicability key(s) for each requirement. It indicates whether the requirement need be satisfied for the item being identified. "ALL" indicates that the requirement must be answered for all items covered by the FIIG. One or more alphabetic character(s) or group of one or more alphabetic characters indicates a response is required when describing items with an approved item name or names represented by the key(s). An asterisk (\*) used in conjunction with any applicability key indicates that the characteristic stated in the requirement may not be applicable to all items covered by the FIIG.

#### (2) Master Requirement Codes (MRC):

A four-position code which is assigned to a FIIG requirement for identification of the requirement, cross-referencing requirements in the various sections and appendices of the FIIG, and for mechanized processing and retrieval of FIIG generated data. Absence of a MRC for a requirement indicates a lead-in to requirements with individual MRCs in Appendix B.

(a) The coding technique for providing MULTIPLE/OPTIONAL responses will not be used for a Section I requirement assigned Mode Code A or L that leads to Appendix B sketches with dimensional requirements.

#### (b) Identified Secondary Address Coding:

This technique is for extending the Master Requirement Code so that a unique address is provided for each application of the requirement in relation to the item and is authorized only as instructed within the requirement. Responses coded through this technique will always consist of the following: (1) Master Requirement Codes, (2) indicator code (a single numeric character determined by the number of positions contained), (3) identified secondary address code (1 to 3-digit alphabetic codes determined by the number of predicted replies), (4) the mode code, (5) the reply code and/or clear text response, and (6) end with a record separator (\*). Steps (1) through (6) are repeated for each application of the requirement.

#### (c) AND/OR coding:

A technique for extending the Master Requirement Code to provide a distinctive address for multiple responses to the same requirement. Responses coded through this technique will always consist of (1) Master Requirement Code, (2) mode code, (3) the response or reply code (as instructed by the requirement), (4) a single dollar sign (\$) for an OR condition, or a double dollar sign (\$\$) for an AND condition, (5) the mode code, (6) the response or reply code

## GENERAL INFORMATION

(followed by conditions (4) through (6) for each of the multiple responses) and (7) end with a record separator (\*). NOTE: Apply this technique only when instructed by the requirement sample reply (e.g.).

### (3) Mode Code:

A one-position alphabetic code that specifies the manner in which a response will be prepared. Each requirement assigned a MRC is also assigned a mode code. Sample replies follow each FIIG requirement displaying the proper construction of a response for the assigned mode code. The response to a requirement will always be prepared in accordance with the assigned mode code and sample reply except in the following instances:

(a) Use of E Mode Code replies is not authorized. If a reply needed to describe an item is not listed in the applicable table, contact the FIIG Initiator.

(b) Mode Code K may not be used for any requirement unless instructed by the requirement instructions.

### (4) Requirement:

This portion includes the characteristics data elements and data use identifiers required to identify and differentiate one item of supply from another, narrative definitions, and explanations as to use and method of expression. Instructions for coding and preparing replies are also provided.

### (5) Reply Code:

A code that represents an established authorized reply to a requirement.

#### d. Section III - Supplementary Technical and Supply Management Data:

This section includes those characteristics requirements necessary to support specific logistics functions other than National Stock Number assignment.

#### e. Appendix A - Reply Tables:

Tables of authorized replies to requirements and reply codes when the tables are too lengthy for inclusion in Section I/III, when applicable.

#### f. Appendix B - Reference Drawings:

This appendix contains representative illustrations which portray specific variations of one or more generic characteristics. If reference drawings contain requirements pages to be used in conjunction with illustrations for dimensioning purposes, the requirements pages will contain Master Requirement Codes, mode codes, and a statement of the requirement. A response to requirements on a requirements page is necessary only for those Master Requirement Codes applicable to the illustration selected.

#### g. Appendix C - Technical Data Tables:

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This appendix contains conversion charts and similar data pertinent to the requirements in Section I/III, when applicable.

3. Enter administrative MRC CLQL immediately following the last FIIG requirement reply, as instructed below:

<u>MRC</u>	<u>Mode Code</u>	<u>Requirement</u>	<u>Example</u>
CLQL	G	COLLOQUIAL NAME (common usage name by which an item is known)	CLQLGWOVEN WIRE CLOTH*

### 4. Special Instructions and Indicator Definitions

#### a. Measurements:

Unless otherwise indicated within a requirement example, enter all measurements in decimal form, carried to the nearest three decimal places, with a minimum of one digit preceding the decimal. For SI (metric), enter all measurements with a minimum of one digit before and after the decimal. For fraction to decimal conversion, see Appendix C.

#### b. Indicators:

A cross hatch (#) following an AIN, MRC, Reply Code or Drawing Number indicates for "ALL EXCEPT USA" use only.

### 5. Indexes

#### a. Index of Data Requirements

This index is arranged in alphabetic sequence by Master Requirement Code, cross-referenced to the applicable data requirement and page number(s).

#### b. Index of Approved Item Names

This index is arranged in alphabetic sequence referenced to Applicability Key.

#### c. Applicability Key Index

This index is arranged in Applicability Key Sequence.

### 6. Maintenance

Requests for revisions and other changes will be directed to:

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INDEX OF APPROVED ITEM NAMES COVERED BY THIS FIIG

**INDEX OF APPROVED ITEM NAMES COVERED BY THIS FIIG**

<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
RING, CONNECTING, ROUND	02628	AA
<p>An endless or split (with joint) hoop-like item having a round (or nearly round) cross section. It is used as a connecting, suspending, lashing, or fastening medium with chain, rope, clothing, equipage, harness and the like. For split items of resilient material, see RING, RETAINING. See also LINK, CHAIN, END.</p>		
RING, DEE	08392	AB
<p>A device in the shape of the letter D, used for attaching and holding straps and lines, or as a handle for certain types of containers.</p>		
RING, DOOR, FLUSH	06631	BA
<p>A metal device, consisting of a ring fastened in a cuplike plate so that the ring and plate are flush; to be fastened to and used in opening doors.</p>		
RING, EXTERNALLY THREADED	08417	DA
<p>A cylindrically shaped item with a concentric bore and a peripheral thread over its entire length or over a portion thereof. One face is drilled, slotted knurled, or has projecting lugs for installation and/or removal purposes. Excludes RETAINER, OPTICAL ELEMENT.</p>		
RING, LOCK, KEYED	21973	EA
<p>A locking device with two keys spaced approximately 180 degrees center to center and protruding from the seating surface of the ring. When installed the keys mate with companion keyways in the external threads of screw thread inserts, locked-in studs, or similar type items, and cut through sufficient threads of the parent material tapped hole to provide a positive lock between the threaded bodies.</p>		
RING, LOCK, SERRATED	16013	EB
<p>A locking device which is serrated on the inside and outside diameters. It may have outer serrations omitted on one or two sides for close edge installation. The inner serrations engage the mating serrations of bolts, inserts, nuts, studs, or similar items to be locked in place. The outer serrations broach their way into parent material when driven or pressed into place.</p>		
RING, LOCKING, BOMB DISPENSER CONTAINER COVER	04641	FA
<p>A device used to lock the cover onto a SHIPPING AND STORAGE CONTAINER, BOMB DISPENSER.</p>		
RING, LOCKING, METAL DRUM COVER	04642	FA
<p>A device used to lock the cover onto a metal drum shipping container.</p>		

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<u>Approved Item Name</u>	<u>INC</u>	<u>App Key</u>
RING, RETAINING	07623	GA

A resilient metal item, circular or nearly circular, which is designed to be inserted into an internal or external groove and retained by its own spring action, or it may have external prongs or projections designed to be inserted into a hole and retained by spring action of the prongs which grip by imbedding into the material. For items having internal prongs which perform the same function, see PUSH ON NUT. It is used to keep and/or lock a part(s) in position, as a ball bearing on a shaft or in a housing. See also CLIP, RETAINING and PIN, LOCK. Excludes RING, CONNECTING, ROUND.

RING, RETAINING, METAL DRUM INSERT	04643	FA
---------------------------------------	-------	----

A device used to retain a partition within a metal drum shipping container.

RING, TOLERANCE	26495	JA
-----------------	-------	----

A corrugated strip of spring steel in the form of a circle. It is unattached at the ends to create a small gap and flat on the sides of the corrugations to provide rigidity. The corrugations protrude from one surface only. Excludes CLIP SPLIT TUBULAR; CLIP SPRING TENSION; and RING, RETAINING.

RING, WELDING, PIPE JOINT	13125	HA
---------------------------	-------	----

A pressed metal item circular in shape, designed to facilitate and expedite the welding of joints in steel pipe and tubing. It is split longitudinally and fits inside the two pieces to be welded. A central ridge assures alignment and spacing. When welding is completed, the ring forms an integral part of the joint.

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APPLICABILITY KEY INDEX

**APPLICABILITY KEY INDEX**

	<u>AA</u>	<u>AB</u>
NAME	X	X
MATL	X	X
SURF	AR	AR
AWGP	X	X
AARN		X
ARQS	X	
AARX	X	
ADJT		X
AFMQ		X
AYJG	X	
AYJH	AR	
ADJH		AR
AJWK	AR	
AWGQ	X	
AWGR		X
FEAT	AR	AR
TEST	AR	AR
SPCL	AR	AR
ZZZK	AR	AR
ZZZT	AR	AR
ZZZW	AR	AR
ZZZX	AR	AR
ZZZY	AR	AR
CRTL	AR	AR
PRPY	AR	AR
ELRN	AR	AR
ELCD	AR	AR
AGAV	AR	AR
CBME	AR	AR
PRMT	AR	AR
PMWT	AR	AR
PMLC	AR	AR
SUPP	AR	AR
ZZZP	AR	AR
ZZZV	AR	AR
CXCY	AR	AR

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GENERAL INFORMATION  
APPLICABILITY KEY INDEX

BA

NAME	X
MATL	X
SURF	AR
ADAV	AR
ABMK	AR
ABHP	AR
AWHT	X
ABFF	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AGAV	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

FIIG T252  
GENERAL INFORMATION  
APPLICABILITY KEY INDEX

DA

NAME	X
MATL	X
SURF	AR
ABHP	AR
ALME	X
AASG	X
AKCV	X
AWHW	AR
ABMZ	AR
ABGL	AR
AEJZ	AR
HGTH	AR
AWPF	AR
AWPG	AR
ABUJ	X
AJYP	X
AAJD	AR
AAJE	AR
AAJF	X
AWPH	X
APJC	AR
AGZD	X
ABXV	AR
ABQB	AR
ABQA	AR
AWPJ	AR
AWPK	X
AWQA	AR
AWQB	AR
AATE	AR
AAZP	AR
ABPZ	AR
AWPL	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AGAV	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
ZZZP	AR
ZZZV	AR

FIG T252  
GENERAL INFORMATION  
APPLICABILITY KEY INDEX

CXCY    AR

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GENERAL INFORMATION  
APPLICABILITY KEY INDEX

	<u>EA</u>	<u>EB</u>
NAME	X	X
MATL	X	X
SURF	AR	AR
ADGA	X	X
AARX	X	X
ABKW	X	X
AAVL		X
AAST	X	
ABSF	X	
AWPM		AR
AWPN		AR
AWQC		AR
FEAT	AR	AR
TEST	AR	AR
SPCL	AR	AR
ZZZK	AR	AR
ZZZT	AR	AR
ZZZW	AR	AR
ZZZX	AR	AR
ZZZY	AR	AR
CRTL	AR	AR
PRPY	AR	AR
ELRN	AR	AR
ELCD	AR	AR
AGAV	AR	AR
CBME	AR	AR
PRMT	AR	AR
PMWT	AR	AR
PMLC	AR	AR
SUPP	AR	AR
ZZZP	AR	AR
ZZZV	AR	AR
CXCY	AR	AR

FIIG T252  
GENERAL INFORMATION  
APPLICABILITY KEY INDEX

FA

NAME	X
MATL	X
AFPQ	X
AARX	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AGAV	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

FIIG T252  
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APPLICABILITY KEY INDEX

GA

NAME	X
MATL	X
SURF	AR
AWQD	X
ALME	X
AASG	X
ACXD	X
AARX	AR
ABKV	AR
AWQF	AR
AWQG	AR
AJUS	AR
ABQK	AR
AAGR	X
ABMB	AR
ABMC	AR
AJRB	AR
ALBY	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AGAV	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

FIIG T252  
GENERAL INFORMATION  
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HA

NAME	X
AWQH	X
AWQJ	X
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AGAV	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

FIIG T252  
GENERAL INFORMATION  
APPLICABILITY KEY INDEX

JA

NAME	X
MATL	X
SURF	AR
ALME	X
HGTH	X
ABGL	X
AQHW	X
ABKV	AR
AARX	AR
AEHZ	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL	AR
PRPY	AR
ELRN	AR
ELCD	AR
AGAV	AR
CBME	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
CXCY	AR

FIG T  
Section Parts

**Body**

**SECTION: A**

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

---

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED02628\*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDBR0000\*; MATLDBN0000\$DST0000\*; MATLDBR0000\$DST0000\*)

ALL\*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDAN0000\*; SURFDAN0000\$DEN0000\*; SURFDCDR000\$DZNN000\*)

ALL

AWGP	G	STOCK SIZE
------	---	------------

Definition: DESIGNATES THE RELATIVE OR PROPORTIONATE SIZE OF THE STOCK.

FIIG T  
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Reply Instructions: Enter the reply in clear text. (e.g., AWGPG0.156 IN. DIA\*; AWGPGN0.2 AWG\*)

AB

AARN	D	FABRICATION METHOD
------	---	--------------------

Definition: THE PROCESS USED IN MANUFACTURING THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AARNDAJ\*)

<u>REPLY CODE</u>	<u>REPLY (AA62)</u>
A	ANY ACCEPTABLE
AN	CAST
AJ	FORGED
AL	STAMPED
BB	WELDED

AA

ARQS	D	CONSTRUCTION
------	---	--------------

Definition: THE STRUCTURAL CHARACTERISTICS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ARQSDABM\*; ARQSDABM\$\$DABS\*; ARQSDABN\$DABP\*)

<u>REPLY CODE</u>	<u>REPLY (AL59)</u>
A	ANY ACCEPTABLE
ABM	BRAZED SPLIT
ABN	ENDLESS
ABP	LAP WELDED JOINT
ABQ	SOLDERED SPLIT
ABR	SPLIT
ABS	WELDED SPLIT

AA

AARX	J	INSIDE DIAMETER
------	---	-----------------

FIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AARXJAA3.750\*; AARXJLA95.3\*; AARXJAB1.469\$\$JAC1.531\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

AB

ADJT	J	INSIDE WIDTH
------	---	--------------

Definition: AN INSIDE MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ADJTJAA0.777\*; ADJTJLA19.5\*; ADJTJAB0.775\$\$JAC0.779\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

AB

FIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
	AFMQ	J	INSIDE HEIGHT

Definition: AN INSIDE MEASUREMENT FROM THE BOTTOM TO THE TOP OF AN ITEM, IN DISTINCTION FROM DEPTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AFMQJAA0.813\*; AFMQJLA20.6\*; AFMQJAB0.810\$\$JAC0.816\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

AA

AYJG	D	TWIST LINK
------	---	------------

Definition: AN INDICATION OF WHETHER OR NOT A TWIST LINK IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AYJGDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

NOTE FOR MRC AYJH: REPLY TO THIS MRC IF REPLY CODE B IS ENTERED FOR MRC AYJG.

AA\* (See Note Above)

AYJH	J	LENGTH FROM TWIST
------	---	-------------------

FIIG T  
Section Parts

APP	MRC	Mode Code	Requirements
Key			

Definition: A MEASUREMENT OF THE LENGTH FROM THE TWIST, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AYJHJAA0.266\*; AYJHJLA6.8\*; AYJHJAB0.263\$\$JAC0.269\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

AB\*

ADJH	D	MOUNTING METHOD
------	---	-----------------

Definition: THE MEANS OF ATTACHING THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ADJHDAA\*)

<u>REPLY CODE</u>	<u>REPLY (AB89)</u>
A	ANY ACCEPTABLE
AA	BOLT
SB	CLASP
CR	CLIP
YB	SPRING ACTION
HA	STRAPS

AA\*

AJWK	J	WEIGHT
------	---	--------

Definition: A RELATIVE MEASURE OF THE MASS OF AN ITEM WITH RESPECT TO ITS DENSITY.

FIG T  
Section Parts

APP	MRC	Mode Code	Requirements
Key			

---

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AJWKJPA2.550\*; AJWKJKA1.2\*; AJWKJPB2.545\$\$JPC2.555\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AB16)</u>
R	GRAMS
K	KILOGRAMS
U	OUNCES
P	POUNDS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

AA

AWGQ	D	LEATHER COVERING
------	---	------------------

Definition: AN INDICATION OF WHETHER OR NOT A LEATHER COVERING IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AWGQDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

AB

AWGR	D	STRAIGHT SIDE FORM
------	---	--------------------

Definition: THE FORM OF THE STRAIGHT SIDE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AWGRDAC\*)

<u>REPLY CODE</u>	<u>REPLY (AM23)</u>
AD	NONROLLER
AC	ROLLER

FIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
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FIG T  
Section Parts

**SECTION: B**

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

---

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED06631\*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDBR0000\*; MATLDBR0000\$DST0000\*; MATLDBR0000\$DBN0000\*)

ALL\*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDCRA000\*; SURFDAN0000\$DEN0000\*; SURFDCRA000\$DJA0000\*)

NOTE FOR MRCS ADAV, ABMK, AND ABHP: FOR CIRCULAR PLATES, REPLY TO MRC ADAV. FOR OTHER THAN CIRCULAR, REPLY TO MRCS ABMK AND ABHP.

ALL\* (See Note Above)

ADAV	J	OVERALL DIAMETER
------	---	------------------

Definition: A MEASUREMENT OF THE LONGEST STRAIGHT LINE ACROSS A CIRCULAR CROSS-SECTIONAL PLANE.

FIG T  
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ADAVJAA1.500\*; ADAVJLA38.1\*; ADAVJAB1.498\$\$JAC1.502\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL\* (See Note Preceding MRC ADAV)

ABMK	J	OVERALL WIDTH
------	---	---------------

Definition: AN OVERALL MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMKJAA2.500\*; ABMKJLA63.5\*; ABMKJAB2.498\$\$JAC2.502\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL\* (See Note Preceding MRC ADAV)

ABHP	J	OVERALL LENGTH
------	---	----------------

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

FIG T  
Section Parts

APP	MRC	Mode Code	Requirements
Key			

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA3.625\*; ABHPJLA92.1\*; ABHPJAB3.623\$\$JAC3.627\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL

AWHT	J	RING INSIDE DIAMETER
------	---	----------------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR RING, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AWHTJAA1.188\*; AWHTJLA30.2\*; AWHTJAB1.186\$\$JAC1.190\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL\*

ABFF	D	FURNISHED ITEMS
------	---	-----------------

FIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

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Definition: ITEMS FURNISHED AS ACCESSORIES WHICH ARE NOT SPECIFIED ELSEWHERE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ABFFDGG\*; ABFFDGG\$SDGJ\*)

REPLY CODE

GG  
GJ

REPLY (AB28)

BOLT  
SCREW

FIG T  
Section Parts

**SECTION: D**

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED08417\*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDBR0000\*; MATLDST2438\$\$DST6890\*; MATLDST2436\$DST2437\*)

ALL\*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPE OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDAN0000\*; SURFDBA0000\$\$DPS0000\*; SURFDAN0000\$DCN0000\*)

ALL\*

ABHP	J	OVERALL LENGTH
------	---	----------------

Definition: THE DIMENSION MEASURED ALONG THE LONGITUDINAL AXIS WITH TERMINATED POINTS AT THE EXTREME ENDS OF THE ITEM.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABHPJAA1.625\*; ABHPJLA41.3\*; ABHPJAB1.623\$\$JAC1.627\*)

Table 1

REPLY CODE

A

REPLY (AA05)

INCHES



FIG T  
Section Parts

APP Key	MRCV	Mode Code	Requirements
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---

ALL

AKCV	D	DRIVE TYPE
------	---	------------

Definition: INDICATES THE TYPE OF DRIVE FOR TURNING, ROTATING, OR POSITIONING THE MECHANISM.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 4. (e.g., AKCVDDF\*)

NOTE FOR MRCS AWHW, ABMZ, ABGL, AEJZ, HGTH, AWPf, AND AWPg: REPLY TO MRCS AWHW, ABMZ, AEJZ, AWPf, AND AWPg IF REPLY CODE CM, CN, OR DH IS ENTERED FOR MRC AKCV. REPLY TO MRCS AWHW, ABMZ, HGTH, AWPf AND AWPg IF REPLY CODE DA IS ENTERED FOR MRC AKCV. REPLY TO MRCS AWHW, ABGL, AEJZ, AND AWPf IF REPLY CODE CP, CT, DD, DE, OR DF IS ENTERED FOR MRC AKCV. REPLY TO MRCS ABMZ OR ABGL, AND AEJZ OR HGTH IF REPLY CODE CQ, CR, CS, CW, CX, CY, CZ, DB, DC, AK, OR DG IS ENTERED FOR MRC AKCV.

ALL\* (See Note Above)

AWHW	J	ACCOMMODATION TYPE AND QUANTITY
------	---	---------------------------------

Definition: INDICATES THE TYPE AND NUMBER OF ACCOMMODATIONS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AHWJAEC4\*)

<u>REPLY CODE</u>	<u>REPLY (AE15)</u>
AEC	HOLES
AED	LUGS
AEE	SLOTS

ALL\* (See Note Preceding MRC AWHW)

ABMZ	J	DIAMETER
------	---	----------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE CIRCUMFERENCE.

FIG T  
Section Parts

APP  
Key    MRC                    Mode Code    Requirements

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABMZJAA0.062\*; ABMZJLA1.6\*; ABMZJAB0.061\$\$JAC0.063\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL\* (See Note Preceding MRC AWHW)

ABGL                    J                    WIDTH

Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABGLJAA0.045\*; ABGLJLA1.2\*; ABGLJAB0.043\$\$JAC0.047\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL\* (See Note Preceding MRC AWHW)

AEJZ                    J                    DEPTH

Definition: A LINEAR MEASUREMENT FROM THE SURFACE TO A SPECIFIED INNER POINT ON AN ITEM, IN DISTINCTION FROM HEIGHT.

FIG T  
Section Parts

APP  
Key    MRC                    Mode Code    Requirements

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AEJZJAA0.070\*; AEJZJLA1.7\*; AEJZJAB0.069\$\$JAC0.071\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL\* (See Note Preceding MRC AWHW)

HGTH                    J                    HEIGHT

Definition: A MEASUREMENT FROM THE BOTTOM TO THE TOP OF AN OBJECT, IN DISTINCTION FROM DEPTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., HGTHJAA0.093\*; HGTHJLA2.2\*; HGTHJAB0.092\$\$JAC0.094\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

NOTE FOR MRCS AWPf AND AATE: REFER TO APPENDIX C, TABLE 2 FOR ASSISTANCE IN CONVERTING MINUTES AND SECONDS INTO DECIMALS OF A DEGREE.

ALL\* (See Note Above and Preceding MRC AWHW)

FIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
	AWPF	B	ANGLE BETWEEN ACCOMMODATIONS IN DEG

Definition: THE ANGLE BETWEEN ACCOMMODATIONS, EXPRESSED IN DEGREES.

Reply Instructions: Enter the numeric value. (e.g., AWPFB90.0\*)

For multiple angles, use AND (\$\$) Coding. (e.g., AWPFB45.0\$\$B90.0\*)

ALL\* (See Note Preceding MRC AWHW)

AWPG	J	RADIUS FROM GEOMETRIC AXIS TO ACCOMMODATION
------	---	--

Definition: THE MEASUREMENT OF A STRAIGHT LINE FROM THE CENTER OF THE ITEM TO THE CENTER OF THE ACCOMMODATION.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AWPJAA0.756\*; AWPJLA19.2\*; AWPJAB0.754\$\$JAC0.758\*)

Table 1

REPLY CODE

A  
L

REPLY (AA05)

INCHES  
MILLIMETERS

Table 2

REPLY CODE

A  
B  
C

REPLY (AC20)

NOMINAL  
MINIMUM  
MAXIMUM

ALL

ABUJ	A	THREAD SIZE
------	---	-------------

Definition: DESIGNATES THE THREAD DIAMETER AND NUMBER OF THREADS PER SPECIFIC MEASUREMENT SCALE.

Reply Instructions: Enter the thread size.

FIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
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(e.g., ABUJA2.063-32\*)

ALL

AJYP	D	SCREW THREAD SERIES DESIGNATOR
------	---	--------------------------------

Definition: A DESIGNATION DISTINGUISHING ONE GROUP OF SCREW THREAD DIAMETER-PITCH COMBINATIONS FROM ANOTHER BY THE NUMBER OF THREADS PER MEASUREMENT SCALE FOR A SPECIFIC DIAMETER.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 3. (e.g., AJYPDAC\*)

NOTE FOR MRCS AAJD AND AAJE: REPLY TO MRC AAJD IF A STANDARD SERIES IS ENTERED FOR MRC AJYP. REPLY TO MRC AAJD OR AAJE AS APPLICABLE IF A NONSTANDARD SERIES IS ENTERED FOR MRC AJYP.

ALL\* (See Note Above)

AAJD	A	THREAD CLASS
------	---	--------------

Definition: A NUMERIC-ALPHA DESIGNATOR INDICATING THE PITCH DIAMETER TOLERANCE AND AN EXTERNAL OR INTERNAL THREAD.

Reply Instructions: Enter the class. (e.g., AAJDA3A\*)

ALL\* (See Note Preceding MRC AAJD)

AAJE	J	THREAD PITCH DIAMETERS
------	---	------------------------

Definition: THE MINIMUM AND MAXIMUM PITCH DIAMETER LIMITS OF A STRAIGHT SCREW THREAD.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values, separated by a slash. Precede all values with a P. (e.g., AAJEJAP0.340/P0.344\*; AAJEJLP8.7/P8.8\*)

REPLY CODE

A  
L

REPLY (AA05)

INCHES  
MILLIMETERS

ALL

FIG T  
Section Parts

APP  
Key    MRC                    Mode Code    Requirements

AAJF                    D                    THREAD DIRECTION

Definition: THE DIRECTION OF THE THREAD WHEN VIEWED AXIALLY. A RIGHT-HAND THREAD WINDS IN A CLOCKWISE DIRECTION WHILE A LEFT-HAND THREAD WINDS IN A COUNTERCLOCKWISE DIRECTION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AAJFDL\*)

<u>REPLY CODE</u>	<u>REPLY (AA38)</u>
L	LEFT-HAND
R	RIGHT-HAND

ALL

AWPH                    D                    BEVELED THREAD

Definition: AN INDICATION OF WHETHER OR NOT A BEVELED THREAD IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AWPHDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

NOTE FOR MRC APJC: REPLY TO THIS MRC IF REPLY CODE B IS ENTERED FOR MRC AWPB.

ALL\* (See Note Above)

APJC                    D                    THREAD LOCATION

Definition: INDICATES THE LOCATION OF THE THREAD ON THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., APJCDAHH\*)

<u>REPLY CODE</u>	<u>REPLY (AJ91)</u>
AHH	BOTH ENDS
APE	DRIVE END

FIG T  
Section Parts

APP			
Key	MRC	Mode Code	Requirements

---

APK	END OPPOSITE DRIVE END
-----	------------------------

ALL

AGZD	D	BORE SHAPE
------	---	------------

Definition: THE PHYSICAL CONFIGURATION OF THE BORE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AGZDDBK\*)

<u>REPLY CODE</u>	<u>REPLY (AD07)</u>
BK	STRAIGHT
TA	TAPERED

NOTE FOR MRCS ABXV, ABQB, ABQA, AND AWPJ: REPLY TO MRC ABXV IF REPLY CODE BK IS ENTERED FOR MRC AGZD. REPLY TO MRCS ABQB, ABQA AND AWPJ IF REPLY CODE TA IS ENTERED FOR MRC AGZD.

ALL\* (See Note Above)

ABXV	J	BORE DIAMETER
------	---	---------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR BORE, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABXVJAA1.937\*; ABXVJLA49.2\*; ABXVJAB1.935\$\$JAC1.939\*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

FIG T  
Section Parts

APP  
Key MRC Mode Code Requirements

ALL\* (See Note Preceding MRC ABXV)

ABQB J TAPER MAJOR DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE LARGEST CIRCULAR CROSS SECTION OF THE TAPERED PORTION, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABQBJAA1.330\*; ABQBJLA34.0\*; ABQBJAB1.328\$\$JAC1.332\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL\* (See Note Preceding MRC ABXV)

ABQA J TAPER MINOR DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THE SMALLEST CIRCULAR CROSS SECTION OF THE TAPERED PORTION, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABQAJAA1.125\*; ABQAJLA28.6\*; ABQAJAB1.123\$\$JAC1.127\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM

FIG T  
Section Parts

APP  
Key MRC Mode Code Requirements

---

C MAXIMUM

ALL\* (See Note Preceding MRC ABXV)

AWPJ D TAPER MAJOR DIAMETER LOCATION

Definition: INDICATES THE LOCATION OF THE TAPER MAJOR DIAMETER.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AWPJDAPE\*)

<u>REPLY CODE</u>	<u>REPLY (AJ91)</u>
APE	DRIVE END
AGB	OPPOSITE DRIVE END

ALL

AWPK D BORE ANNULAR INTERNAL SERRATION

Definition: AN INDICATION OF WHETHER OR NOT A BORE ANNULAR INTERNAL SERRATION(S) IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AWPKDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

ALL\*

AWQA D BORE EDGE PROCESS

Definition: AN INDICATION OF THE PROCESS APPLIED TO THE BORE EDGE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AWQADLN\*)

If ends are processed differently use AND (\$\$) Coding entering a reply for the drive end first. (e.g., AWQADLN\$\$DLP\*)

FIIG T  
Section Parts

APP  
Key    MRC                    Mode Code    Requirements

---

<u>REPLY CODE</u>	<u>REPLY (AD07)</u>
A	ANY ACCEPTABLE
LN	CHAMFERED
LP	ROUNDED

REPLY TO MRCS AWQB AND ABPZ IF REPLY CODE LP IS ENTERED FOR MRC AWQA, USING AND CODING FOR DIFFERENTLY PROCESSED ENDS, ENTERING A REPLY FOR THE DRIVE END FIRST. USE AND CODING (\$\$) TO ENTER A TOLLERANCE FOR MRCS AAZP AND ABPZ, IF APPLICABLE. NOTE FOR MRCS AWQB, AATE, AAZP, AND ABPZ: REPLY TO MRCS AWQB, AATE, AND AAZP IF REPLY CODE LN IS ENTERED FOR MRC AWQA, USE AND (\$\$) CODING FOR DIFFERENTLY PROCESSED ENDS, ENTERING A REPLY FOR THE DRIVE END FIRST. REPLY TO MRCS AWQB AND ABPZ IF REPLY CODE LP IS ENTERED FOR MRC AWQA, USING AND (\$\$) CODING FOR DIFFERENTLY PROCESSED ENDS, ENTERING A REPLY FOR THE DRIVE END FIRST. USE AND CODING (\$\$) TO ENTER A TOLLERANCE FOR MRCS AAZP AND ABPZ, IF APPLICABLE.

ALL\* (See Note Above)

AWQB            D                    PROCESS END LOCATION

Definition: INDICATES THE LOCATION OF THE END ON WHICH THE PROCESS IS TO BE APPLIED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AWQBDAH\* ; AWQBDAPE\$\$DAPK\*)

<u>REPLY CODE</u>	<u>REPLY (AJ91)</u>
AHH	BOTH ENDS
APE	DRIVE END
APK	END OPPOSITE DRIVE END

ALL\* (See Note Preceding MRCs AWPf and AWQB)

AATE            B                    CHAMFER ANGLE IN DEG

FIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

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Definition: THE MEASUREMENT OF THE CHAMFER ANGLE, EXPRESSED IN DEGREES.

Reply Instructions: Enter the numeric value, as measured from the end. Use minimum of one decimal place to maximum of four decimal places. (e.g., AATEB30.0\*; AATEB30.5\$\$B45.5\*)

ALL\* (See Note Preceding MRC AWQB)

AAZP	J	CHAMFER LENGTH
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Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF THE CHAMFER, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AAZPJAA0.047\*; AAZPJLA1.2\*; AAZPJAB0.046\$\$JAC0.048\*; AAZPJAA0.063\$\$JAA0.068\*; AAZPJAB0.063\$\$JAC0.068\$\$JAB0.072\$\$JAC0.076\*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL\* (See Note Preceding MRC AWQB)

ABPZ	J	END RADIUS
------	---	------------

Definition: A MEASUREMENT OF A STRAIGHT LINE EXTENDING FROM THE CENTER OF A CIRCLE TO THE END.

FIG T  
Section Parts

APP  
Key MRC Mode Code Requirements

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABPZJAA0.032\*; ABPZJLA0.8\*; ABPZJAB0.030\$\$JAC0.032\*; ABPZJAA0.016\$\$JAA0.031\*; ABPZJAB0.030\$\$JAC0.032\$\$JAB0.046\$\$JAC0.048\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL

AWPL            D            SETSCREW LOCKING NOTCH

Definition: AN INDICATION OF WHETHER OR NOT A SETSCREW LOCKING NOTCH IS INCLUDED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AWPLDB\*)

<u>REPLY CODE</u>	<u>REPLY (AA49)</u>
B	INCLUDED
C	NOT INCLUDED

FIG T  
Section Parts

**SECTION: E**

APP

Key MRC Mode Code Requirements

---

ALL

NAME D ITEM NAME

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED16013\*)

ALL

MATL D MATERIAL

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDST1894\*; MATLDALA000\$DST6412\*; MATLDST6814\$DST1647\*)

ALL\*

SURF D SURFACE TREATMENT

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDAN0000\*; SURFDCDR000\$DCN0000\*; SURFDCDR000\$DPS0000\*)

ALL

ADGA J OVERALL OUTSIDE DIAMETER

Definition: THE OVERALL LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF AN ITEM, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ADGAJAA1.326\*; ADGAJLA8.2\*; ADGAJAB1.320\$JAC1.332\*)

FIG T  
Section Parts

APP  
Key MRC Mode Code Requirements

---

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

AARX J INSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AARXJAA0.390\*; AARXJLA9.8\*; AARXJAB0.388\$\$JAC0.392\*)

Table 1

REPLY CODE

A

L

REPLY (AA05)

INCHES

MILLIMETERS

Table 2

REPLY CODE

A

B

C

REPLY (AC20)

NOMINAL

MINIMUM

MAXIMUM

ALL

ABKW J OVERALL HEIGHT

Definition: THE DISTANCE MEASURED IN A STRAIGHT LINE FROM THE BOTTOM TO THE TOP OF AN ITEM.

FIG T  
Section Parts

APP  
Key MRC Mode Code Requirements

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABKWJAA0.382\*; ABKWJLA9.7\*; ABKWJAB0.380\$\$JAC0.384\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

EB

AAVL J PILOT DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF THAT PORTION USED TO GUIDE THE ITEM, AND TERMINATES AT THE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AAVLJAA0.145\*; AAVLJLA3.6\*; AAVLJAB0.140\$\$JAC0.150\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

EA

AAST J KEY LENGTH

FIG T  
Section Parts

APP  
Key MRC Mode Code Requirements

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF A KEY, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AASTJAA0.200\*; AASTJLA5.1\*; AASTJAB0.198\$\$JAC0.202\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

EA

ABSF J KEY WIDTH

Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF A KEY, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABSFJAA0.125\*; ABSFJLA3.2\*; ABSFJAB0.123\$\$JAC0.127\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

EB\*

AWPM A OUTER SERRATION QUANTITY

FIG T  
Section Parts

APP  
Key MRC Mode Code Requirements

---

Definition: THE NUMBER OF SERRATIONS ON THE OUTER CIRCUMFERENCE.

Reply Instructions: Enter the quantity. (e.g., AWPMA36\*)

EB\*

AWPN A INNER SERRATION QUANTITY

Definition: THE NUMBER OF SERRATIONS ON THE INNER CIRCUMFERENCE.

Reply Instructions: Enter the quantity. (e.g., AWPNA26\*)

EB\*

AWQC D SIDE OUTER SERRATIONS OMITTED FOR CLOSE EDGE INSTALLATION

Definition: AN INDICATION OF THE SIDE(S) FROM WHICH OUTER SERRATIONS HAVE BEEN OMITTED TO PROVIDE FOR CLOSE EDGE INSTALLATION.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AWQCDAEY\*)

REPLY CODE  
ADD  
AEY

REPLY (AJ91)  
ONE SIDE  
TWO SIDES

FIG T  
Section Parts

**SECTION: F**

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED04641\*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDST0000\*; MATLDBN0000\$DST0000\*; MATLDST0000\$DSTB000\*)

ALL

AFPQ	D	CLOSURE FASTENING TYPE
------	---	------------------------

Definition: INDICATES THE TYPE OF DEVICE(S) USED TO SECURE THE CLOSURE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFPQDAB\*)

<u>REPLY CODE</u>	<u>REPLY (AE36)</u>
A	ANY ACCEPTABLE
AB	BOLTS
BS	CAM LEVER
BT	SNAP

ALL

AARX	J	INSIDE DIAMETER
------	---	-----------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

FIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

---

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AARXJAA27.105\*; AARXJLA30.0\*; AARXJAB27.103\$\$JAC27.107\*)

Table 1

REPLY CODE

A  
L

REPLY (AA05)

INCHES  
MILLIMETERS

Table 2

REPLY CODE

A  
B  
C

REPLY (AC20)

NOMINAL  
MINIMUM  
MAXIMUM

**SECTION: G**

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

---

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED07623\*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE, OF WHICH AN ITEM IS FABRICATED, EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDBC0000\*; MATLDBR0000\$DST0000\*; MATLDBR0000\$DPZ0000\*)

ALL\*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDAN0000\*; SURFDCDR0000\$DCN0000\*; SURFDCDR0000\$DZNN0000\*)

ALL

AWQD	J	STRENGTH RATING
------	---	-----------------

Definition: THE LOAD IN TENSION APPLIED IN A LONGITUDINAL DIRECTION OR THE LOAD THAT CAN BE APPLIED IN A PLANE PERPENDICULAR TO THE AXIAL CENTERLINE WITHOUT RUPTURE OR PERMANENT DEFORMATION OF THE MATERIAL.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AWQDJVAB30000.0\*)

FIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., AWQDKN\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AB18)</u>
K	KILOGRAMS PER SQUARE CENTIMETER
S	MEGAPASCALS
V	POUNDS PER SQUARE INCH

Table 2

<u>REPLY CODE</u>	<u>REPLY (AM45)</u>
AB	MINIMUM TENSILE
AC	MINIMUM YIELD

ALL

ALME                      J                      MATERIAL HARDNESS RATING

Definition: A NUMERIC VALUE THAT REFLECTS THE HARDNESS OF THE MATERIAL WHEN USED IN CONJUNCTION WITH A HARDNESS RATING SCALE.

Reply Instructions: Enter the applicable Reply Codes from [Appendix A](#), Table 6 and the table below, followed by the numeric value. (e.g., ALMEJRCA60.0\*; ALMEJRUB66.0\$\$JRUC73.0\*)

For items that do not require a rating, change the Mode Code to K and enter Reply Code N. (e.g., ALMEKN\*)

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL

AASG                      D                      CASEHARDENING INDICATOR

Definition: INDICATES WHETHER OR NOT A FERROUS ALLOY OBJECT HAS BEEN SUBJECTED TO A PROCESS WHEREBY THE OUTER PORTION IS MADE SUBSTANTIALLY HARDER THAN THE INNER PORTION OR CORE.

FIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
------------	-----	-----------	--------------

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AASGDA\*)

<u>REPLY CODE</u>	<u>REPLY (AA70)</u>
A	CASEHARDENED
B	NOT CASEHARDENED

ALL

ACXD	L	RING STYLE
------	---	------------

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE RING.

Reply Instructions: Enter the group designator and style number from [Appendix B](#), Reference Drawing Group A. (e.g., ACXDLA1\*)

REPLY TO MRC ABQK IF STYLE NUMBER 1 OR 7 IS ENTERED FOR MRC ACXD. SEE LEGEND LETTER J, APPENDIX B, REFERENCE DRAWING GROUP A. NOTE FOR MRCS AJUS AND ABQK: REPLY TO MRC AJUS IF STYLE NUMBER 1 THROUGH 17, 25, 28 THROUGH 31, 72, OR 93 IS ENTERED FOR MRC ACXD. SEE LEGEND LETTER H, APPENDIX B, REFERENCE DRAWING GROUP A. REPLY TO MRC ABQK IF STYLE NUMBER 1 OR 7 IS ENTERED FOR MRC ACXD. SEE LEGEND LETTER J, APPENDIX B, REFERENCE DRAWING GROUP A.

ALL\* (See Note Above)

AJUS	D	GAP OPENING
------	---	-------------

Definition: THE SIZE OF THE GAP OPENING IN REFERENCE TO A 90 DEGREE ANGLE.

Reply Instructions: Enter the Reply Code from the table below. (e.g., AJUSDBU\*)

<u>REPLY CODE</u>	<u>REPLY (AD21)</u>
AA	OPENING LESS THAN 90 DEGREES
BU	OPENING 90 DEGREES OR MORE

ALL\* (See Note Preceding MRC AJUS)

ABQK	L	END STYLE
------	---	-----------

FIIG T  
Section Parts

APP			
Key	MRC	Mode Code	Requirements

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE END.

Reply Instructions: Enter the group designator and style number from [Appendix B](#), Reference Drawing Group C. (e.g., ABQKLC7\*)

ALL

AAGR	L	CROSS-SECTIONAL SHAPE STYLE
------	---	-----------------------------

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE CROSS-SECTIONAL SHAPE OF THE ITEM.

Reply Instructions: Enter the group designator and style number from [Appendix B](#), Reference Drawing Group D. (e.g., AAGRDL1\*)

ALL

ALBY	D	USAGE DESIGN
------	---	--------------

Definition: INDICATES THE DESIGNED USE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ALBYDAFC\*; ALBYDAFC\$\$DAFD\*; ALBYDAFC\$DAFD\*)

<u>REPLY CODE</u>	<u>REPLY (AH21)</u>
AFC	EXTERNAL
AFD	INTERNAL

FIG T  
Section Parts

**SECTION: H**

APP

Key MRC Mode Code Requirements

---

ALL

NAME D ITEM NAME

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED13125\*)

ALL

AWQH J NOMINAL SIZE

Definition: DESIGNATES THE NOMINAL SIZE OF THE ITEM, SUCH AS LENGTH, WIDTH, DIAMETER, AND THE LIKE.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AWQHJA0.125\*; AWQHJL3.2\*)

REPLY CODE

A  
L

REPLY (AA05)

INCHES  
MILLIMETERS

ALL

AWQJ D PIPE/TUBING TYPE FOR WHICH DESIGNED

Definition: INDICATES THE TYPE OF PIPE AND/OR TUBING FOR WHICH THE ITEM IS DESIGNED.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AWQJDAJT\*)

REPLY CODE

A  
AJT  
AJW

REPLY (AK54)

ANY ACCEPTABLE  
EXTRA STRONG  
STANDARD WEIGHT

FIIG T  
Section Parts

**SECTION: J**

APP

Key	MRC	Mode Code	Requirements
-----	-----	-----------	--------------

---

ALL

NAME	D	ITEM NAME
------	---	-----------

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code from the index appearing in the General Information Section. (e.g., NAMED26495\*)

ALL

MATL	D	MATERIAL
------	---	----------

Definition: THE ELEMENT, COMPOUND, OR MIXTURE OF WHICH AN ITEM IS FABRICATED. EXCLUDING ANY SURFACE TREATMENT.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 1. (e.g., MATLDST0000\*; MATLDST2438\$\$DST6890\*; MATLDST2436\$DST2437\*)

ALL\*

SURF	D	SURFACE TREATMENT
------	---	-------------------

Definition: CONSISTS OF PLATING, DIP, AND/OR COATING THAT CANNOT BE WIPED OFF. PLATING AND/OR COATING IS ANY CHEMICAL AND/OR METALLIC ADDITIVE, ELECTROCHEMICAL, OR MILD MECHANICAL PROCESS WHICH PROTECTS A SURFACE.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 2. (e.g., SURFDAN0000\*; SURFDBA0000\$\$DPS0000\*; SURFDAN0000\$DCN0000\*)

ALL

ALME	J	MATERIAL HARDNESS RATING
------	---	--------------------------

Definition: A NUMERIC VALUE THAT REFLECTS THE HARDNESS OF THE MATERIAL WHEN USED IN CONJUNCTION WITH A HARDNESS RATING SCALE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ALMEJRCA60.0\*; ALMEJRCA60.0\$JRCC27.0\*)

FIG T  
Section Parts

APP  
Key MRC Mode Code Requirements

For items that do not reflect a rating, change the Mode Code to K and enter Reply Code N. (e.g., ALMEKN\*)

Table 1

REPLY CODE  
RC

REPLY (AC26)  
ROCKWELL C

Table 2

REPLY CODE  
A  
B  
C

REPLY (AC20)  
NOMINAL  
MINIMUM  
MAXIMUM

ALL

HGTH J HEIGHT

Definition: A MEASUREMENT FROM THE BOTTOM TO THE TOP OF AN OBJECT, IN DISTINCTION FROM DEPTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., HGTHJAA1.250\*; HGTHJLA31.8\*; HGTHJAB1.248\$\$JAC1.252\*)

Table 1

REPLY CODE  
A  
L

REPLY (AA05)  
INCHES  
MILLIMETERS

Table 2

REPLY CODE  
A  
B  
C

REPLY (AC20)  
NOMINAL  
MINIMUM  
MAXIMUM

ALL

ABGL J WIDTH

Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF THE ITEM, IN DISTINCTION FROM THICKNESS.

FIG T  
Section Parts

APP	MRC	Mode Code	Requirements
Key			

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABGLJAA1.250\*; ABGLJLA31.8\*; ABGLJAB1.248\$\$JAC1.252\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

Table 2

<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL

AQHW	D	CORRUGATED SURFACE LOCATION
------	---	-----------------------------

Definition: INDICATES THE LOCATION OF THE CORRUGATED SURFACE ON THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AQHWDAXC\*)

<u>REPLY CODE</u>	<u>REPLY (AJ91)</u>
AXD	INSIDE SURFACE
AXC	OUTSIDE SURFACE

ALL\*

ABKV	J	OUTSIDE DIAMETER
------	---	------------------

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE OUTSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ABKVJAA2.438\*; ABKVJLA62.0\*; ABKVJAB2.436\$\$JAC2.440\*)

Table 1

<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
-------------------	---------------------

FIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
		A	INCHES
		L	MILLIMETERS
<u>Table 2</u>			
		<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
		A	NOMINAL
		B	MINIMUM
		C	MAXIMUM

ALL\*

AARX                    J                    INSIDE DIAMETER

Definition: THE LENGTH OF A STRAIGHT LINE WHICH PASSES THROUGH THE CENTER OF A CIRCULAR FIGURE OR BODY, AND TERMINATES AT THE INSIDE CIRCUMFERENCE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AARXJAA3.750\*; AARXJLA95.3\*; AARXJAB1.469\$\$JAC1.531\*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

ALL\*

AEHZ                    J                    MAXIMUM OPERATING TEMP

Definition: THE MAXIMUM TEMPERATURE AT WHICH THE ITEM IS RATED TO OPERATE FOR AN EXTENDED PERIOD OF TIME.

Reply Instructions: Enter the Reply Code from the table below, followed by the numeric value. (e.g., AEHZJF300.0\*)

<u>REPLY CODE</u>	<u>REPLY (AB36)</u>
-------------------	---------------------

FIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
		C	DEG CELSIUS
		F	DEG FAHRENHEIT

**SECTION: STANDARD**

APP

Key MRC Mode Code Requirements

---

ALL\*

FEAT G SPECIAL FEATURES

Definition: THOSE UNUSUAL OR UNIQUE CHARACTERISTICS OR QUALITIES OF AN ITEM NOT COVERED IN THE OTHER REQUIREMENTS AND WHICH ARE DETERMINED TO BE ESSENTIAL FOR IDENTIFICATION.

Reply Instructions: Enter the reply in clear text. Separate multiple replies with a semicolon. (e.g., FEATGADJUSTABLE NOSE CLIP\*; FEATGADJUSTABLE NOSE PIECE; DISPOSABLE\*)

ALL\*

TEST J TEST DATA DOCUMENT

Definition: THE SPECIFICATION, STANDARD, DRAWING, OR SIMILAR INSTRUMENT THAT SPECIFIES ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS OR TEST CONDITIONS UNDER WHICH AN ITEM IS TESTED AND ESTABLISHES ACCEPTABLE LIMITS WITHIN WHICH THE ITEM MUST CONFORM IDENTIFIED BY AN ALPHABETIC AND/OR NUMERIC REFERENCE NUMBER. INCLUDES THE COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE OF THE ENTITY CONTROLLING THE INSTRUMENT.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the 5-position CAGE Code, a dash, and the document identification number.

(e.g., TESTJA12345-CWX654321\*;

TESTJA1234A-654321\$\$JB5556A-663654\*;

TESTJAA2345-654321\$JB55566-663654\*)

<u>REPLY</u> <u>CODE</u>	<u>REPLY (AC28)</u>
-----------------------------	---------------------

A	SPECIFICATION (Includes engineering type bulletins, brochures, etc., that reflect specification type data in specification format; excludes commercial catalogs, industry directories, and similar trade publications, reflecting general type data on certain environmental and performance requirements and test conditions that are shown as "typical," "average," "nominal," etc.)
B	STANDARD (Includes industry or association standards, individual manufacturer standards, etc.)

FIG T  
Section Parts

APP

Key MRC Mode Code Requirements

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C	DRAWING (This is the basic governing drawing, such as a contractor drawing, original equipment manufacturer drawing, etc.; excludes any specification, standard, or other document that may be referenced in a basic governing drawing)
---	---

ALL\*

SPCL G SPECIAL TEST FEATURES

Definition: TEST CONDITIONS AND RATINGS, OR ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS THAT ARE DIFFERENT, MORE CRITICAL, OR MORE SPECIFIC THAN THOSE SPECIFIED IN A GOVERNING TEST DATA DOCUMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SPCLGSELECTED AND TESTED FOR NAVIGATIONAL SYSTEMS\*)

ALL\*

ZZZK J SPECIFICATION/STANDARD DATA

Definition: THE DOCUMENT DESIGNATOR OF THE SPECIFICATION OR STANDARD WHICH ESTABLISHED THE ITEM OF SUPPLY.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the Commercial and Government Entity (CAGE) Code of the entity controlling the document, a dash, and the document designator. The agency that controls the limited coordination document must be preceded and followed by a slash following the designator. The word canceled or superseded must be preceded and followed by a slash for the designator. Professional and industrial association specifications/standards are differentiated from a manufacturer's specification in that the data has been coordinated and published by the professional and industrial association. Include amendments and revisions where applicable.

(e.g., ZZZKJT81337-30642B\*;

ZZZKJS81349-MIL-D-180 REV1/CANCELED/\*;

ZZZKJP80205-NAS1103\*;

ZZZKJS81349-MIL-C-1140C/CE/\*;

ZZZKJT81337-30642B\$\$JP80205-NAS1103\*)

FIG T  
Section Parts

APP

Key MRC Mode Code Requirements

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<u>REPLY CODE</u>	<u>REPLY (AN62)</u>
S	GOVERNMENT SPECIFICATION
T	GOVERNMENT STANDARD
D	MANUFACTURERS SOURCE CONTROL
R	MANUFACTURERS SPECIFICATION
N	MANUFACTURERS SPECIFICATION CONTROL
M	MANUFACTURERS STANDARD
B	NATIONAL STD/SPEC
A	PROFESSIONAL/INDUSTRIAL ASSOCIATION SPECIFICATION
P	PROFESSIONAL/INDUSTRIAL ASSOCIATION STANDARD

NOTE FOR MRC ZZZT: IF THE SPECIFICIATION/STANDARD CITED IN REPLY TO MRC ZZZK IS NONDEFINITIVE, REPLY TO MRC ZZZT. THIS REPLY IS THE DATA WHICH IS NOT RECORDED IN SEGMENT C.

ALL\* (See Note Above)

ZZZT J NONDEFINITIVE SPEC/STD DATA

Definition: THE NUMBER, LETTER, OR SYMBOL THAT INDICATES THE TYPE, STYLE, GRADE, CLASS, AND THE LIKE, OF AN ITEM IN A NONIDENTIFYING SPECIFICATION OR STANDARD.

Reply Instructions: Enter the applicable Reply Code from [Appendix A](#), Table 5, followed by the appropriate number, letter, or symbol. (e.g., ZZZTJTY1\*; ZZZTJTY1\$JSTA\*; ZZZTJTY1\$JSTA\*)

ALL\*

ZZZW G DEPARTURE FROM CITED DOCUMENT

Definition: THE TECHNICAL DIFFERENTIATING CHARACTERISTIC(S) OF AN ITEM OF SUPPLY WHICH DEPART(S) FROM THE TEXT OF A SPECIFICATION OR A STANDARD IN THAT IT REPRESENTS A SELECTION OF CHARACTERISTICS STATED IN THE SPECIFICATION OR STANDARD AS BEING OPTIONAL, OR A VARIATION FROM ONE OR MORE OF THE STATED CHARACTERISTICS, OR AN ADDITIONAL CHARACTERISTIC NOT STATED IN THE SPECIFICATION OR STANDARD.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZWGAS MODIFIED BY MATERIAL\*)

FIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
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ALL\*

ZZZX	G	DEPARTURE FROM CITED DESIGNATOR
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Definition: THE VARIATION WHEN THE ITEM IS IN CONFORMITY WITH A TYPE DESIGNATOR COVERED BY A SPECIFICATION OR STANDARD, EXCEPT IN REGARD TO ONE OR MORE TECHNICAL DIFFERENTIATING CHARACTERISTICS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZXGAS MODIFIED BY MATERIAL\*)

ALL\*

ZZZY	G	REFERENCE NUMBER DIFFERENTIATING CHARACTERISTICS
------	---	--

Definition: A FEATURE OF THE ITEM OF SUPPLY WHICH MUST BE SPECIFICALLY RECORDED WHEN THE REFERENCE NUMBER COVERS A RANGE OF ITEMS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZYGCOLOR CODED LEADS\*; ZZZYGAS DIFFERENTIATED BY MATERIAL\*)

ALL\*

CRTL	A	CRITICALITY CODE JUSTIFICATION
------	---	--------------------------------

Definition: THE MASTER REQUIREMENT CODES OF THOSE REQUIREMENTS WHICH ARE TECHNICALLY CRITICAL BY REASON OF TOLERANCE, FIT, PERFORMANCE, OR OTHER CHARACTERISTICS WHICH AFFECT IDENTIFICATION OF THE ITEM.

Reply Instructions: Enter the Master Requirement Code for the requirement, the reply to which renders the item as being critical. (e.g., CRTLAMATL\*; CRTLAMATL\$\$ASURF\*)

Reply to this requirement only if the header record for the item identification for the item being identified has been coded as critical.

NOTE FOR MRC PRPY: IF DOCUMENT AVAILABILITY CODE B, D, F, OR H, REPLY TO MRC PRPY.

ALL\* (See Note Above)

FIG T  
Section Parts

APP

Key	MRC	Mode Code	Requirements
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PRPY	A	PROPRIETARY CHARACTERISTICS	
------	---	-----------------------------	--

Definition: IDENTIFICATION OF THOSE CHARACTERISTICS INCLUDED IN THE DESCRIPTION FOR WHICH A NON-GOVERNMENT ACTIVITY HAS IDENTIFIED ALL OR SELECTED CHARACTERISTICS OF THE ITEM AS BEING PROPRIETARY AND THEREFORE RESTRICTED FROM RELEASE OUTSIDE THE GOVERNMENT WITHOUT PRIOR PERMISSION OF THE ORIGINATOR OF THE DATA.

Reply Instructions: Enter the MRC codes of the individual characteristics of the description which are marked proprietary on the technical data, using AND coding (\$\$) for multiple characteristics. If all the MRCs are proprietary, enter the reply PACS. If none of the MRCs is proprietary, enter the reply NPAC. (e.g., PRPYAPACS\*; PRPYANPAC\*; PRPYAMATL\$\$ASURF\*)

ALL\*

ELRN	G	EXTRA LONG REFERENCE NUMBER	
------	---	-----------------------------	--

Definition: A REFERENCE NUMBER EXCEEDING 32 POSITIONS.

Reply Instructions: Enter the entire reference number. Do not include the 5-position Commercial and Government Entity (CAGE) Code unless there is more than one extra long reference number on the NSN, (e.g., ELRNGANN112036BIL060557LEN313605UZ62365\*).

If there is more than one extra long reference number on the NSN, include the CAGE or NCAGE and separate each reference by using the "&" character, (e.g., 28480 ANN112036BIL060557LEN313605UZ62365 & S1234 NN112036BIL060557LEN313605UZ62365).

In determining quantity of characters in the reference number, count will be made after modification in accordance with Volume 2, Chapter 9, FLIS Procedures Manual, DoD 4100.39-M.

ALL\*

ELCD	D	EXTRA LONG CHARACTERISTIC DESCRIPTION	
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Definition: A DESCRIPTION THAT EXCEEDS 5000 CHARACTERS.

Reply Instructions: Enter the Reply Code from the table below. (e.g., ELCDDA\*)

REPLY  
CODE

REPLY (AN58)

FIIG T  
Section Parts

APP

Key MRC Mode Code Requirements

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		A	ADDITIONAL DESCRIPTIVE DATA ON MANUAL RECORD
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ALL\*

**ZZZK J SPECIFICATION/STANDARD DATA**

**Definition: THE DOCUMENT DESIGNATOR OF THE SPECIFICATION OR STANDARD WHICH ESTABLISHED THE ITEM OF SUPPLY.**

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the Commercial and Government Entity (CAGE) Code of the entity controlling the document, a dash, and the document designator. The agency that controls the limited coordination document must be preceded and followed by a slash following the designator. The word canceled or superseded must be preceded and followed by a slash for the designator. Professional and industrial association specifications/standards are differentiated from a manufacturer's specification in that the data has been coordinated and published by the professional and industrial association. Include amendments and revisions where applicable.

(e.g., ZZZKJT81337-30642B\*;

ZZZKJS81349-MIL-D-180 REV1/CANCELED/\*;

ZZZKJP80205-NAS1103\*;

ZZZKJS81349-MIL-C-1140C/CE/\*;

ZZZKJT81337-30642B\$\$JP80205-NAS1103\*)

<u>REPLY CODE</u>	<u>REPLY (AN62)</u>
S	GOVERNMENT SPECIFICATION
T	GOVERNMENT STANDARD
D	MANUFACTURERS SOURCE CONTROL
R	MANUFACTURERS SPECIFICATION
N	MANUFACTURERS SPECIFICATION CONTROL
M	MANUFACTURERS STANDARD
B	NATIONAL STD/SPEC
A	PROFESSIONAL/INDUSTRIAL ASSOCIATION SPECIFICATION
P	PROFESSIONAL/INDUSTRIAL ASSOCIATION STANDARD

FIG T  
Section Parts

FIG T  
Section Parts

**SECTION: SUPPTECH**

APP

Key      MRC                      Mode Code      Requirements

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NOTE FOR MRC AGAV: THIS REQUIREMENT SHOULD BE ANSWERED IN ALL INSTANCES WHERE THE ITEM OF SUPPLY BEING IDENTIFIED IS SPECIALLY DESIGNED "(PECULIAR)" AS DEFINED IN VOLUME 4, CHAPTER 2, FLIS PROCEDURES MANUAL DoD 4100.39-M. DO NOT REPLY TO THIS REQUIREMENT FOR COMMON, GENERAL PURPOSE (NON-SPECIALLY DESIGNED MULTI-APPLICATION) ITEMS.

AGAV              G                      END ITEM IDENTIFICATION

Definition: THE NATIONAL STOCK NUMBER OR THE IDENTIFICATION INFORMATION OF THE END EQUIPMENT FOR WHICH THE ITEM IS A PART.

Reply Instructions: Enter the reply in clear text.

(e.g., AGAVG3930-00-000-0000\*;

AGAVFORKLIFT TRUCK, SMITH CORP, MODEL 12, TYPE A\*)

ALL

CBME              J                      CUBIC MEASURE

Definition: A MEASURE OF VOLUME TAKEN BY MULTIPLYING THE LENGTH BY THE WIDTH BY THE HEIGHT OF AN ITEM AND RENDERED IN CUBIC UNITS.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CBMEJCF1.0219\*; CBMEJCM0.1\*)

<u>REPLY CODE</u>	<u>REPLY (AN76)</u>
CF	CUBIC FEET
CM	CUBIC METERS

ALL

PRMT              D                      PRECIOUS MATERIAL

Definition: IDENTIFICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM.

FIG T  
Section Parts

APP  
Key      MRC              Mode Code      Requirements

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., PRMTDAGA000\*; PRMTDAUA000\$\$DAGA000\*; PRMTDAGA000\$DAUA000\*)

<u>REPLY CODE</u>	<u>REPLY (MA01)</u>
AUA000	GOLD
IRA000	IRIDIUM
AZA000	OSMIUM
PDA000	PALLADIUM
PTA000	PLATINUM
RHA000	RHODIUM
RTA000	RUTHENIUM
AGA000	SILVER

ALL

PMWT              J                      PRECIOUS MATERIAL AND WEIGHT

Definition: AN INDICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM, AND THE AMOUNT PER A MEASUREMENT SCALE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. Enter multiple replies in Table 1 sequence. (e.g., PMWTJPTA000R0.780\*; PMWTJAUA000F0.500\$\$JAGA000R0.780\*)

<u>Table 1</u>	
<u>REPLY CODE</u>	<u>REPLY (MA01)</u>
AUA000	GOLD
IRA000	IRIDIUM
AZA000	OSMIUM
PDA000	PALLADIUM
PTA000	PLATINUM
RHA000	RHODIUM
RTA000	RUTHENIUM
AGA000	SILVER

<u>Table 2</u>	
<u>REPLY CODE</u>	<u>REPLY (AG14)</u>
E	GRAINS, TROY
R	GRAMS
F	OUNCES, TROY

ALL

FIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
	PMLC	J	PRECIOUS MATERIAL AND LOCATION

Definition: AN INDICATION OF THE PRECIOUS MATERIAL AND ITS LOCATION IN THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the location in clear text. (e.g., PMLCJAUA000TERMINALS\*; PMLCJAUA000TERMINALS\$\$JAGA000INTERNAL SURFACES\*; PMLCJAGA000TERMINALS\$JAUA000INTERNAL SURFACES\*)

<u>REPLY CODE</u>	<u>REPLY (MA01)</u>
AUA000	GOLD
IRA000	IRIDIUM
AZA000	OSMIUM
PDA000	PALLADIUM
PTA000	PLATINUM
RHA000	RHODIUM
RTA000	RUTHENIUM
AGA000	SILVER

ALL

SUPP	G	SUPPLEMENTARY FEATURES
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Definition: CHARACTERISTICS OR QUALITIES OF AN ITEM, NOT COVERED IN ANY OTHER REQUIREMENT, WHICH ARE CONSIDERED ESSENTIAL INFORMATION FOR ONE OR MORE FUNCTIONS EXCLUDING NSN ASSIGNMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SUPPGMAY INCL HOLE IN UPPER SUPPORT FOR MTG DURING SHIPMENT\*)

ALL

ZZZP	J	PURCHASE DESCRIPTION IDENTIFICATION
------	---	-------------------------------------

Definition: THE CONTROLLING ACTIVITY AND IDENTIFICATION OF A DOCUMENT USED IN LIEU OF A SPECIFICATION IN THE PROCUREMENT OF AN ITEM OF SUPPLY.

Reply Instructions: Enter the 5-position Commercial and Government Entity (CAGE) code, followed by a dash and the identifying number of the document.

(e.g., ZZZPJ81337-30624A\*)

FIG T  
Section Parts

APP Key	MRC	Mode Code	Requirements
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ALL

ZZZV	G	FSC APPLICATION DATA
------	---	----------------------

Definition: THE JUSTIFICATION FOR THE ASSIGNMENT OF A FEDERAL SUPPLY CLASS (FSC) TO AN ITEM BASED ON THE CLASSIFICATION OF THE NEXT HIGHER CLASSIFIABLE ASSEMBLY.

Reply Instructions: Enter the name of the next higher classifiable assembly in clear text. (e.g., ZZZVGFUEL SYSTEM, GASOLINE ENGINE, NONAIRCRAFT\*)

ALL

CXCY	G	PART NAME ASSIGNED BY CONTROLLING AGENCY
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Definition: THE NAME ASSIGNED TO THE ITEM BY THE GOVERNMENT AGENCY OR COMMERCIAL ORGANIZATION CONTROLLING THE DESIGN OF THE ITEM.

Reply Instructions: Enter the reply in clear text. (e.g., CXCYGLINE PROCESSOR CONTROL BOARD\*)

## Reply Tables

Table 1 - MATERIALS .....	73
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Table 1 - MATERIALS  
MATERIALS

<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ALC000	ALUMINUM
AL0000	ALUMINUM ALLOY
AL1371	ALUMINUM ALLOY, ALLOY 2024, TEMPER T4, ALUMINUM ASSOCIATION
AL1372	ALUMINUM ALLOY, ALLOY 6061, TEMPER T6, ALUMINUM ASSOCIATION
AL0869	ALUMINUM ALLOY, AMS 4117
AL0003	ALUMINUM ALLOY, AMS 4118
AL0007	ALUMINUM ALLOY, AMS 4122
AL0015	ALUMINUM ALLOY, AMS 4150
AL1262	ALUMINUM ALLOY, AMS 4640
AL2399	ALUMINUM ALLOY, ASTM B210, ALLOY 6061, T6
AL2756	ALUMINUM ALLOY, ASTM B221, ALLOY 7075, T76
AL2722	ALUMINUM ALLOY, L85, DOWTY ROTOL LTD
AL1956	ALUMINUM ALLOY, MIL-A-268, T4
AL1208	ALUMINUM ALLOY, MIL-T-5063
AL1955	ALUMINUM ALLOY, QQ-A-200, T3511
AL0866	ALUMINUM ALLOY, QQ-A-200/2, T6
AL0115	ALUMINUM ALLOY, QQ-A-200/3
AL2666	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T3
AL0202	ALUMINUM ALLOY, QQ-A-200/3, ALLOY 2024, T4
AL0868	ALUMINUM ALLOY, QQ-A-200/3, T4
AL1721	ALUMINUM ALLOY, QQ-A-200/3, 2024, T6
AL0036	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6061
AL0489	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6061, T4
AL0490	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6061, T6
AL0491	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6061, T42
AL0492	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6061, T4510
AL0493	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6061, T4511
AL0221	ALUMINUM ALLOY, QQ-A-200/8, ALLOY 6062, T6
AL1209	ALUMINUM ALLOY, QQ-A-200/8, T6
AL1959	ALUMINUM ALLOY, QQ-A-200/8, T6511
AL0994	ALUMINUM ALLOY, QQ-A-200/8, 6061, T6
AL0040	ALUMINUM ALLOY, QQ-A-200/11. ALLOY 7075
AL0245	ALUMINUM ALLOY, QQ-A-200/11. ALLOY 7075, T73
AL2766	ALUMINUM ALLOY, QQ-A-200/11. ALLOY 7075, T73510
AL2767	ALUMINUM ALLOY, QQ-A-200/11, ALLOY 7075, T73511
AL1211	ALUMINUM ALLOY, QQ-A-225/3, T3
AL1379	ALUMINUM ALLOY, QQ-A-225/4, T4
AL1213	ALUMINUM ALLOY, QQ-A-225/4, T6
AL0940	ALUMINUM ALLOY, QQ-A-225/5, T4
AL0130	ALUMINUM ALLOY, QQ-A-225/6
AL0047	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024
AL0281	ALUMINUM ALLOY, QQ-A-225/6, ALLOY 2024, T6

FIIG T252  
APPENDIX A

REPLY  
CODE

REPLY (AD09)

AL0941	ALUMINUM ALLOY, QQ-A-225/6, T4
AL0942	ALUMINUM ALLOY, QQ-A-225/6, T6
AL0943	ALUMINUM ALLOY, QQ-A-225/6, T351
AL1248	ALUMINUM ALLOY, QQ-A-225/6, T851
AL0293	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, T6
AL0294	ALUMINUM ALLOY, QQ-A-225/8, ALLOY 6061, T651
AL0887	ALUMINUM ALLOY, QQ-A-225/8, T6
AL1214	ALUMINUM ALLOY, QQ-A-225/8, T651
AL0298	ALUMINUM ALLOY, QQ-A-225/9, ALLOY 7075, T73
AL0297	ALUMINUM ALLOY, QQ-A-225/9, ALLOY 7075, T651
AL1715	ALUMINUM ALLOY, QQ-A-225/9, ALLOY 7075, T7351
AL0944	ALUMINUM ALLOY, QQ-A-225/9, T6
AL0051	ALUMINUM ALLOY, QQ-A-250/1, ALLOY 1100
AL0052	ALUMINUM ALLOY, QQ-A-250/2, ALLOY 3003
AL0136	ALUMINUM ALLOY, QQ-A-250/4
AL0893	ALUMINUM ALLOY, QQ-A-250/4, T3
AL0945	ALUMINUM ALLOY, QQ-A-250/4, T4
AL0895	ALUMINUM ALLOY, QQ-A-250/5, T3
AL0370	ALUMINUM ALLOY, QQ-A-250/8, ALLOY 5052, H32
AL0390	ALUMINUM ALLOY, QQ-A-250/11, ALLOY 6061, T651
AL0889	ALUMINUM ALLOY, QQ-A-250/11, T6
AL0394	ALUMINUM ALLOY, QQ-A-250/12, ALLOY 7075, T651
AL0890	ALUMINUM ALLOY, QQ-A-250/12, T6
AL0399	ALUMINUM ALLOY, QQ-A-250/13, ALLOY ALCLAD 7075, T651
AL0417	ALUMINUM ALLOY, QQ-A-250/18, ALLOY ALCLAD ONE SIDE 7075, T651
AL2773	ALUMINUM ALLOY, QQ-A-250/26, ALLOY 7075, T651
AL1042	ALUMINUM ALLOY, QQ-A-266, T6 - CANCELED
AL0640	ALUMINUM ALLOY, QQ-A-267 - CANCELED
AL0900	ALUMINUM ALLOY, QQ-A-267, T4 - CANCELED
AL0542	ALUMINUM ALLOY, QQ-A-268 - CANCELED
AL0544	ALUMINUM ALLOY, QQ-A-268, COND T4 - CANCELED
AL2135	ALUMINUM ALLOY, QQ-A-268, TEMP O - CANCELED
AL0938	ALUMINUM ALLOY, QQ-A-268, T4 - CANCELED
AL0585	ALUMINUM ALLOY, QQ-A-270 - CANCELED
AL1544	ALUMINUM ALLOY, QQ-A-270, T6 - CANCELED
AL1037	ALUMINUM ALLOY, QQ-A-277, T6 - CANCELED
AL0902	ALUMINUM ALLOY, QQ-A-282, T6 - CANCELED
AL2270	ALUMINUM ALLOY, QQ-A-282, T651 - CANCELED
AL0532	ALUMINUM ALLOY, QQ-A-318, H34 - CANCELED
AL0912	ALUMINUM ALLOY, QQ-A-325, T6 - CANCELED
AL0547	ALUMINUM ALLOY, QQ-A-327 - CANCELED
AL0548	ALUMINUM ALLOY, QQ-A-327, COND W - CANCELED
AL0913	ALUMINUM ALLOY, QQ-A-327, T6 - CANCELED
AL0549	ALUMINUM ALLOY, QQ-A-351 - CANCELED
AL0597	ALUMINUM ALLOY, QQ-A-351, COND T - CANCELED
AL0988	ALUMINUM ALLOY, QQ-A-351, T4 - CANCELED
AL0550	ALUMINUM ALLOY, QQ-A-354 - CANCELED

FIG T252  
APPENDIX A

REPLY  
CODE

REPLY (AD09)

AL0552	ALUMINUM ALLOY, QQ-A-354, COND T - CANCELED
AL1647	ALUMINUM ALLOY, QQ-A-354, T4 - CANCELED
AL0551	ALUMINUM ALLOY, QQ-A-355 - CANCELED
AL0961	ALUMINUM ALLOY, QQ-A-355, T3 - CANCELED
AL0533	ALUMINUM ALLOY, QQ-A-355, T4 - CANCELED
AL0918	ALUMINUM ALLOY, QQ-A-362, T3 - CANCELED
AL0670	ALUMINUM ALLOY, QQ-A-365 - CANCELED
AL1821	ALUMINUM ALLOY, QQ-A-365, COMP A, T3 - CANCELED
AL1166	ALUMINUM ALLOY, QQ-A-365, T3 - CANCELED
AL1570	ALUMINUM ALLOY, QQ-A-367, ALLOY 2014, T6
AL1957	ALUMINUM ALLOY, SAE 17S, T4
AL0949	ALUMINUM ALLOY, SAE 24 - CANCELED
AL0930	ALUMINUM ALLOY, WW-T-700/3, T3
AL1776	ALUMINUM ALLOY, WW-T-700/3, T4, TYPE 1
AL2129	ALUMINUM ALLOY, WW-T-700/6, ALLOY 6061, T4
AL0964	ALUMINUM ALLOY, WW-T-700/6, T6
AL0559	ALUMINUM ALLOY, WW-T-785 - CANCELED
AL1820	ALUMINUM ALLOY, WW-T-785, COND T - CANCELED
AL1792	ALUMINUM ALLOY, WW-T-785, T3 - CANCELED
AL1793	ALUMINUM ALLOY, WW-T-785, T4 - CANCELED
AL1051	ALUMINUM ALLOY, WW-T-787 - CANCELED
AL2269	ALUMINUM ALLOY, WW-T-789, ALLOY 6061, T4 - CANCELED
AL0639	ALUMINUM ALLOY, WW-T-789 - CANCELED
AL2105	ALUMINUM ALLOY, WW-T-789, COND T - CANCELED
AL2252	ALUMINUM ALLOY, WW-T-789, TYPE 1, O - CANCELED
AL2120	ALUMINUM ALLOY, WW-T-789, T4 - CANCELED
AL0966	ALUMINUM ALLOY, WW-T-789, T6 - CANCELED
AL1933	ALUMINUM ALLOY, 2024, T42
AL2272	ALUMINUM ALLOY, 2024, T851
ALA000	ALUMINUM BRONZE
AL0693	ALUMINUM BRONZE, AMS 4640
AL1001	ALUMINUM BRONZE, ASTM B148, ALLOY 9C
AL2271	ALUMINUM BRONZE, ASTM B148, ALLOY 9D
	Aluminum Bronze, QQ-B-666, Grade B-Canceled (use Reply Code CK0095)
ALP000	ALUMINUM, COPPER, MAGNESIUM AND MANGANESE ALLOY
A	ANY ACCEPTABLE
BC0000	BERYLLIUM COPPER
BC0016	BERYLLIUM COPPER, ALLOY 25
BC0102	BERYLLIUM COPPER, BS2873CB101W, SMITH INDUSTRIES LTD
BC0012	BERYLLIUM COPPER, QQ-C-533
BC0003	BERYLLIUM COPPER, QQ-C-533, COND A
BR0000	BRASS
BR0834	BRASS, ASTM B134, ALLOY 270
BRW000	BRASS, COMMERCIAL
	Brass, MIL-B-895-Canceled (use Reply Code BR0048)
	Brass, MIL-B-895, 1/2H - Canceled (use Reply Code BR0048)
BR0621	BRASS, MIL-B-944, COMP A

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APPENDIX A

REPLY  
CODE

REPLY (AD09)

BR0044 BRASS, MIL-B-994, COMP A - CANCELED  
BR0530 BRASS, MIL-B-994, COMP A, 1/2 HARD - CANCELED  
BR0445 BRASS, MIL-B-994, COMP B - CANCELED  
BR0353 BRASS, MIL-B-994, COMP B, 1/2 HARD - CANCELED  
BR0045 BRASS, MIL-B-994, COMP C - CANCELED  
Brass, MIL-B-13492 - CANCELED (use Reply Code CK0451)  
Brass, MIL-B-13492, Comp 3 - CANCELED (use Reply Code CK0962)  
BR0721 BRASS, MIL-B-17668, COMP 1  
Brass, MIL-C-895 - CANCELED (use Reply Code BR0048)  
Brass, MIL-C-895, 1/2 Hard - CANCELED (use Reply Code BR0048)  
BR0355 BRASS, MIL-P-2780, GRADE A - CANCELED  
BR0475 BRASS, MIL-T-6945, COMP 3  
BR0724 BRASS, N, 44-T-15, GRADE 1  
BR0725 BRASS, N, 44-T-15, GRADE 2  
BR0726 BRASS, N, 44-T-15, GRADE 2, TYPE A  
BRJ000 BRASS, NAVAL  
Brass, QQ-B-611, CANCELED (use Reply Code BR0048)  
Brass, QQ-B-611, Comp B - CANCELED (use Reply Code BR0188)  
Brass, QQ-B-611, Comp B, 1/2H - CANCELED (use Reply Code BR0188)  
Brass, QQ-B-611, Cond D - CANCELED (use Reply Code BR0038)  
Brass, QQ-B-611, 1/2H - CANCELED (use Reply Code BR0048)  
BR0092 BRASS, QQ-B-613, ALLOY 268, SPRING  
BR0156 BRASS, QQ-B-613, COMP 1, 1/2 HARD  
BR0009 BRASS, QQ-B-613, COMP 2  
BR0012 BRASS, QQ-B-613, COMP 24  
BR0476 BRASS, QQ-B-613, 1/2 HARD  
BR0048 BRASS, QQ-B-626  
BR0186 BRASS, QQ-B-626, ALLOY 342  
Brass, QQ-B-626, Alloy 342, 1/2H (use Reply Code BR0186)  
BR0188 BRASS, QQ-B-626, ALLOY 360  
Brass, QQ-B-626, Alloy 360, Rod, Hard (use Reply Code BR0188)  
Brass, QQ-B-626, Alloy 360, 1/2H (use Reply Code BR0188)  
BR0189 BRASS, QQ-B-626, ALLOY 377  
Brass, QQ-B-626, Comp B (use Reply Code BR0048)  
Brass, QQ-B-626, Comp 3, 1/2 Hard (use Reply Code BR0048)  
BR0038 BRASS, QQ-B-626, COMP 11  
Brass, QQ-B-626, Comp 21, 1/2H (use Reply Code BR0189)  
Brass, QQ-B-626, Comp 22 (use Reply Code BR0188)  
Brass, QQ-B-626, Comp 22, 1/2H - CANCELED (use Reply Code BR0188)  
Brass, QQ-B-626, Comp 360 (use Reply Code BR0188)  
Brass, QQ-B-626, Comp 360, 1/2H (use Reply Code Br0188)  
Brass, QQ-B-626, 1/2 Hard (use Reply Code BR0048)  
BR0720 BRASS, QQ-B-630  
BR0345 BRASS, QQ-B-636 - CANCELED  
BR0737 BRASS, QQ-B-636, CLASS A, 1/2 HARD - CANCELED  
BR0686 BRASS, QQ-B-636, CLASS B, 1/2 HARD - CANCELED  
BR0719 BRASS, QQ-B-636, COMP 1, 1/2 HARD - CANCELED

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REPLY  
CODE

REPLY (AD09)

BR0773	BRASS, QQ-B-636, COMP 2, CLASS A - CANCELED
BR0717	BRASS, QQ-B-637, ALLOY 464, FORM ROD, 1/2 HARD
BR0072	BRASS, QQ-B-637, ALLOY 482 Brass, QQ-B-637, Alloy 482, Form Rod, 1/2 Hard (use Reply Code BR0072)
BR0459	BRASS, QQ-B-637, ALLOY 485, ROD, 1/2 HARD
BR0473	BRASS, QQ-B-638, COMP 3 - CANCELED
BR0153	BRASS, SAE 40
BR0340	BRASS, SAE 72
BR0722	BRASS, SAE 79A, COND 1/2 HARD
WEY000	BRASS WIRE
BR0487	BRASS, WW-T-791, GRADE 2, TYPE A
BR0775	BRASS, WW-T-791, TYPE 2, GRADE B
BR0524	BRASS, WW-T-791, TYPE 3
BN0000	BRONZE
BNA000	BRONZE ALUMINUM Bronze Aluminum, QQ-B-671, Class 3 - Canceled (use Reply Code CK0927) Bronze Aluminum, QQ-B-671, Class 4 - Canceled (use Reply Code CK0963)
BN0014	BRONZE, ASTM B61
BN0558	BRONZE, ASTM B159, ALLOY 510
BNJ000	BRONZE, CAST
BNY000	BRONZE, LEADED
BM0104	BRONZE MANGANESE, MIL-B-21230, ALLOY 1
BM0094	BRONZE MANGANESE, QQ-B-728, CLASS A, COMP 1/2 HARD
BN0209	BRONZE, MIL-B-11553, COMP 8 - CANCELED
BN0238	BRONZE, MIL-B-16444, GRADE A
BN0164	BRONZE, MIL-B-16540, GRADE A - CANCELED
BN0239	BRONZE, MIL-B-16541 Bronze, MIL-M-16576 - CANCELED (use Reply Code CK0087) Bronze, QQ-B-671, CANCELED (use Reply Code CK0087) Bronze, QQ-B-671, Class 1 - CANCELED (use Reply Code CK0945) Bronze, QQ-B-691, Comp 2 - CANCELED (use Reply Code BN0437)
BN0139	BRONZE, QQ-B-746, COMP A - CANCELED
BN0437	BRONZE, QQ-L-225, COMP 2 - CANCELED
BN0510	BRONZE, SAE, J462, COMP 660
BN0531	BRONZE, SAE 40
BN0133	BRONZE, SAE 64
BN0485	BRONZE, SAE 81
BN0490	BRONZE, SAE 660
CTA000	CARBON GRAPHITE
CMA000	COBALT ALLOY
CM0038	COBALT ALLOY, ELGILOY, ELGIN NATIONAL INDUSTRIES INC
CU0000	COPPER
CK0000	COPPER ALLOY
CK0858	COPPER ALLOY, AMS 4555
CK0551	COPPER ALLOY, AMS 4630
CK1166	COPPER ALLOY, AMS 4720, ALLOY 510
CK1168	COPPER ALLOY, ASTM B61

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REPLY  
CODE

REPLY (AD09)

CK1206 #	COPPER ALLOY, CU-BE1, 9
CK0451	COPPER ALLOY, MIL-T-46072
CK0962	COPPER ALLOY, MIL-T-46072, ALLOY 332
CK0087	COPPER ALLOY, QQ-C-390
CK1194	COPPER ALLOY, QQ-C-390, ALLOY C90300, TYPE 3
CK0959	COPPER ALLOY, QQ-C-390, ALLOY 836
CK0939	COPPER ALLOY, QQ-C-390, ALLOY 903
CK0945	COPPER ALLOY, QQ-C-390, ALLOY 952
CK0927	COPPER ALLOY, QQ-C-390, ALLOY 954
CK0963	COPPER ALLOY, QQ-C-390, ALLOY 958
CK0115	COPPER ALLOY, QQ-C-450, ALLOY 606, HARD
CK1180	COPPER ALLOY, QQ-C-450, ALLOY 610
CK0119	COPPER ALLOY, QQ-C-450, ALLOY 613, HARD
CK0121	COPPER ALLOY, QQ-C-450, ALLOY 614, HARD
CK1117	COPPER ALLOY, QQ-C-450, ALLOY 630
CK1181	COPPER ALLOY, QQ-C-00465, ALLOY UNS C63200
CK0888	COPPER ALLOY, QQ-C-465
CK1176	COPPER ALLOY, QQ-C-465, ALLOY 606
CK0123	COPPER ALLOY, QQ-C-465, ALLOY 614
CK0124	COPPER ALLOY, QQ-C-465, ALLOY 642
CK0095	COPPER ALLOY, QQ-C-465, COMP 630
CK0439	COPPER ALLOY, QQ-C-530
CK0099	COPPER ALLOY, QQ-C-530, COND H
CK0083	COPPER ALLOY, QQ-C-533
CK0189	COPPER ALLOY, QQ-W-321, ALLOY 510
CK0177	COPPER ALLOY, SAE 40
CU0121	COPPER, QQ-C-465, ALLOY 606
CU0122	COPPER, QQ-C-465, ALLOY 614
CU0124	COPPER, QQ-C-465, ALLOY 642
CU0190	COPPER, QQ-C-502, H
CU0001	COPPER, QQ-W-341 - CANCELED
CUH000	COPPER-SILICON ALLOY
CUAP00	COPPER, SILICON ALLOY, HARD Fiber (use Reply Code FBK000)
FBK000	FIBER, VULCANIZED
FE0000	IRON
FE0350	IRON ALLOY, AMS 5525, COMP 660
FE0353	IRON ALLOY, AMS 5734, COMP 660
FEA000	IRON, CAST
FEC000	IRON, MALLEABLE
FE0132	IRON, QQ-I-666, GRADE 1
FE0160	IRON, QQ-I-666, GRADE 2
FEB000	IRON, WROUGHT
PBD000	LEAD ALLOY
MN0015	MAGANESE BRONZE, QQ-M-80, CLASS A, COND 1/2H
MNE000	MAGANESE STEEL
MG0000	MAGNESIUM

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
MGA000	MAGNESIUM ALLOY
MG0041	MAGNESIUM, QQ-M-31
MG0001	MAGNESIUM, QQ-M-31, AZ61A
MG0091	MAGNESIUM, QQ-M-31, COMP AZ31B
NF0060	NICKEL ALLOY, AMS 5699
NF0204	NICKEL, BLACK, MIL-P-18317
NC0000	NICKEL COPPER ALLOY
NC0106	NICKEL COPPER ALLOY, K-59,S,KOPPERS CO INC Nickel Copper Alloy, MIL-N-894 - CANCELED (use Reply Code NC0017)
NC0017	NICKEL COPPER ALLOY, QQ-N-281
NC0003	NICKEL-COPPER ALLOY, QQ-N-281, CLASS A
NF0096	NICKEL, QQ-N-288, COMP B
NS0000	NICKEL SILVER Phosphate (invalid) Phosphate, MIL-C-16232, Type 2 - CANCELED
PZ0000	PHOSPHOR BRONZE
PZ0071	PHOSPHOR BRONZE, ASTM B139, ALLOY B1
PZ0029	PHOSPHOR BRONZE, QQ-B-750
PZ0068	PHOSPHOR BRONZE, QQ-P-330, COMP A - CANCELED
PC0000	PLASTIC
PC2048	PLASTIC, MIL-M-20693 Plastic, MIL-P-17091 - CANCELED (use Reply Code PC2048)
PC0108	PLASTIC, MIL-P-19468
PCGL00	PLASTIC, POLYBUTYLENETEREPHTHALATE
PC0287	PLASTIC, TETRAFLUOROETHYLENE RESIN, MIL-R-8791
PL0000	POLYAMIDE NYLON
RC7844	RUBBER, CHLOROPRENE, AMS 3210
AG0000	SILVER
ST0000	STEEL
ST6405	STEEL, AISI B1112
ST6342	STEEL, AISI MT1015
ST3844	STEEL, AISI 302
ST6757	STEEL, AISI 303
ST6758	STEEL, AISI 303SE
ST3845	STEEL, AISI 304
ST6777	STEEL, AISI 416
ST6779	STEEL, AISI 420
ST6334	STEEL, AISI 1008
ST6335	STEEL, AISI 1010
ST6341	STEEL, AISI 1015
ST6347	STEEL, AISI 1018
ST6366	STEEL, AISI 1040
ST6371	STEEL, AISI 1045
ST6375	STEEL, AISI 1050
ST6382	STEEL, AISI 1060
ST6385	STEEL, AISI 1065
ST6388	STEEL, AISI 1070

FIG T252  
APPENDIX A

REPLY  
CODE

REPLY (AD09)

ST6391	STEEL, AISI 1074
ST6393	STEEL, AISI 1078
ST6394	STEEL, AISI 1080
ST6395	STEEL, AISI 1084
ST6396	STEEL, AISI 1085
ST6398	STEEL, AISI 1090
ST6399	STEEL, AISI 1095
ST6412	STEEL, AISI 1137
ST6416	STEEL, AISI 1144
ST6453	STEEL, AISI 4142H
ST6463	STEEL, AISI 4340
ST6814	STEEL, AISI 8635
ST6527	STEEL, AISI 8640
STG449	STEEL, ALLOY 1215, 209-17-8, CESSNA AIRCRAFT CO
ST2444	STEEL, AMS 5022
ST1802	STEEL, AMS 5024
ST2560	STEEL, AMS 5070
STD665	STEEL, AMS 5077
ST3342	STEEL, AMS 5112
ST8113	STEEL, AMS 5115
ST2537	STEEL, AMS 5120
ST2549	STEEL, AMS 5504
ST2540	STEEL, AMS 5519
ST3112	STEEL, AMS 5520
ST3155	STEEL, AMS 5521
ST3111	STEEL, AMS 5528
ST8036	STEEL, AMS 5591
ST1728	STEEL, AMS 5610
ST3308	STEEL, AMS 5610, TYPE 416
ST3258	STEEL, AMS 5610E
ST2438	STEEL, AMS 5613
STB848	STEEL, AMS 5613, COMP 30304
ST2399	STEEL, AMS 5616
ST3305	STEEL, AMS 5625
ST1798	STEEL, AMS 5639
ST2016	STEEL, AMS 5640
ST3278	STEEL, AMS 5640, TYPE SAE 30303F
STB844	STEEL, AMS 5640, 303
ST1917	STEEL, AMS 5643
STB845	STEEL, AMS 5643, COND A
STG186	STEEL, AMS 5643, COND H900
STG187	STEEL, AMS 5643, COND H925
STG188	STEEL, AMS 5643, COND H1025
STG189	STEEL, AMS 5643, COND H1075
STG190	STEEL, AMS 5643, COND H1100
STG191	STEEL, AMS 5643, COND H1150
ST2699	STEEL, AMS 5643, 17-4PH

FIG T252  
APPENDIX A

REPLY  
CODE

REPLY (AD09)

ST2441	STEEL, AMS 5644
ST2697	STEEL, AMS 5645, TYPE 321
ST7532	STEEL, AMS 5659
ST3520	STEEL, AMS 5673
STG064	STEEL, AMS 5678
ST3344	STEEL, AMS 5688
ST2400	STEEL, AMS 5731
ST3756	STEEL, AMS 5734
ST1606	STEEL, AMS 5735
ST2388	STEEL, AMS 6304
ST1911	STEEL, AMS 6320
ST1800	STEEL, AMS 6322
ST2518	STEEL, AMS 6323
ST1912	STEEL, AMS 6324
ST2037	STEEL, AMS 6330
ST2562	STEEL, AMS 6359
ST2401	STEEL, AMS 6370
ST3681	STEEL, AMS 6371
ST2511	STEEL, AMS 6372
ST3095	STEEL, AMS 6381
STB736	STEEL, AMS 6381, COMP 4140
ST8066	STEEL, AMS 6407
STB847	STEEL, AMS 6411
ST1803	STEEL, AMS 6415
STG257	STEEL, AMS 7330
STB855	STEEL, AN-S-14
STB856	STEEL, AN-T-696
STB857	STEEL, AN-WW-T-846
ST2358	STEEL, ASTM A36
STA007	STEEL, ASTM A108
ST7967	STEEL, ASTM A108, GRADE 1018
STD832	STEEL, ASTM A108, GRADE 1212
STF340	STEEL, ASTM A108, GRADE 1215
ST2048	STEEL, ASTM A217, GRADE WC6
STA606	STEEL, ASTM A227
STA729	STEEL, ASTM A227-47
STA601	STEEL, ASTM A228
STA734	STEEL, ASTM A229
ST0985	STEEL, ASTM A276
STG308	STEEL, ASTM A276, TYPE 302
STB739	STEEL, ASTM A283
STF437	STEEL, ASTM A304
STD850	STEEL, ASTM A304, GRADE 4140H
STF759	STEEL, ASTM A313, TYPE 302
STD851	STEEL, ASTM A322
STD982	STEEL, ASTM A322, GRADE 4140
STD887	STEEL, ASTM A331

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REPLY  
CODE

REPLY (AD09)

STD910	STEEL, ASTM A331, GRADE 4140
STD538	STEEL, ASTM A400
ST7642	STEEL, ASTM A515
STG787	STEEL, ASTM A516
STG192	STEEL, ASTM A549, GRADE 1008
STG193	STEEL, ASTM A549, GRADE 1010
STG194	STEEL, ASTM A549, GRADE 1012
STG195	STEEL, ASTM A549, GRADE 1015
STG196	STEEL, ASTM A549, GRADE 1016
STG197	STEEL, ASTM A549, GRADE 1017
STG198	STEEL, ASTM A549, GRADE 1018
STB740	STEEL, ASTM A575
STG788	STEEL, ASTM A580
STF049	STEEL, ASTM A582, TYPE 303
STG260	STEEL, ASTM A582, TYPE 416, COND A
STG294	STEEL, ASTM A663
STG295	STEEL, ASTM A675
STF744	STEEL, ASTM A682, GRADE 1064
STF745	STEEL, ASTM A682, GRADE 1065
STF746	STEEL, ASTM A682, GRADE 1070
STG261	STEEL, ASTM A682, GRADE 1074
STG262	STEEL, ASTM A682, GRADE 1080
STG263	STEEL, ASTM A682, GRADE 1085
STG264	STEEL, ASTM A682, GRADE 1086
STG265	STEEL, ASTM A682, GRADE 1095
STF743	STEEL, ASTM A683, GRADE 1060
STF561	STEEL, ASTM A684
STG315	STEEL, AY1522 FULFLO SPECIALTIES CO
ST9244	STEEL, BS S96, CONDITION B
ST7147	STEEL, BS S513
STD537	STEEL, BS 1449
STG880	STEEL, BS 5216
ST2844	STEEL, B7A2, GENERAL ELECTRIC CO, AIRCRAFT ENGINE GROUP
ST1052	STEEL, CARBON
ST1123	STEEL, CARBON, FED STD 66, AISI OR SAE 1095
STAX00	STEEL, CHROME MOLYBDENUM
STAS00	STEEL, CHROME-NICKEL-MOLYBDENUM
STAT00	STEEL, COMMERCIAL
STG808 #	STEEL, COMP XC75
STG612 #	STEEL, COMP 30 CD 12
STB000	STEEL, CORROSION RESISTING
STG789	STEEL, DIN 17222, DIN DEUTSCHES INSTITUTE
STG185	STEEL, DTD 215, DOWTY ROTOL LTD
STF591	STEEL, EM-1A82-A, NORTH AMERICA FORD MOTOR CO
STF592	STEEL, ESW-M1A82-A, NORTH AMERICA FORD MOTOR CO
ST9045	STEEL, FED STD 66, AISI B1113
ST1930	STEEL, FED STD 66, AISI/SAE 1020

FIG T252  
APPENDIX A

REPLY  
CODE

REPLY (AD09)

ST1295	STEEL, FED STD 66, AISI/SAE 1025
ST1298	STEEL, FED STD 66, AISI/SAE 1040
ST2169	STEEL, FED STD 66, AISI/SAE 1060
ST1726	STEEL, FED STD 66, AISI/SAE 1117
ST1309	STEEL, FED STD 66, AISI/SAE 1120
ST1335	STEEL, FED STD 66, AISI/SAE 4130
ST1341	STEEL, FED STD 66, AISI/SAE 4140
ST1968	STEEL, FED STD 66, AISI/SAE 8637H
ST1397	STEEL, FED STD 66, AISI/SAE 8640
ST1401	STEEL, FED STD 66, AISI/SAE 8645
ST1614	STEEL, FED STD 66, AISI 302/SAE 30302
ST1615	STEEL, FED STD 66, AISI 303/SAE 30303
ST1632	STEEL, FED STD 66, AISI 420/SAE 51420
ST2172	STEEL, FED STD 66, AISI 1065
	Steel, Fed Std 66, any composition which can be heat treated in accordance with MIL-H-6875 (see FED STD 66)
ST8969	STEEL, FED STD 66, COMP C1022
ST3281	STEEL, FED STD 66, COMP 301
ST1817	STEEL, FED STD 66, COMP 302
ST3282	STEEL, FED STD 66, COMP 303SE
ST2526	STEEL, FED STD 66, COMP 304
ST3283	STEEL, FED STD 66, COMP 304L
ST2516	STEEL, FED STD 66, COMP 305
ST6037	STEEL, FED STD 66, COMP 308
ST3284	STEEL, FED STD 66, COMP 309
ST6038	STEEL, FED STD 66, COMP 309S
ST3285	STEEL, FED STD 66, COMP 310
ST6039	STEEL, FED STD 66, COMP 310S
ST6040	STEEL, FED STD 66, COMP 314
ST3286	STEEL, FED STD 66, COMP 316
ST6041	STEEL, FED STD 66, COMP 316L
ST3287	STEEL, FED STD 66, COMP 317
ST1819	STEEL, FED STD 66, COMP 321
ST1820	STEEL, FED STD 66, COMP 347
ST3288	STEEL, FED STD 66, COMP 348
ST6042	STEEL, FED STD 66, COMP 384
ST6043	STEEL, FED STD 66, COMP 385
ST3291	STEEL, FED STD 66, COMP 410
ST6054	STEEL, FED STD 66, COMP 1008
ST3548	STEEL, FED STD 66, COMP 1010
ST6061	STEEL, FED STD 66, COMP 1012
ST6064	STEEL, FED STD 66, COMP 1015
ST6068	STEEL, FED STD 66, COMP 1016
ST6069	STEEL, FED STD 66, COMP 1017
ST6071	STEEL, FED STD 66, COMP 1018
ST6072	STEEL, FED STD 66, COMP 1019
ST6113	STEEL, FED STD 66, COMP 1060

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APPENDIX A

REPLY  
CODE

REPLY (AD09)

ST6114	STEEL, FED STD 66, COMP 1061
ST6115	STEEL, FED STD 66, COMP 1064
ST6116	STEEL, FED STD 66, COMP 1065
ST6117	STEEL, FED STD 66, COMP 1066
ST6118	STEEL, FED STD 66, COMP 1069
ST6119	STEEL, FED STD 66, COMP 1070
ST6121	STEEL, FED STD 66, COMP 1072
ST6122	STEEL, FED STD 66, COMP 1074
ST6123	STEEL, FED STD 66, COMP 1075
ST6124	STEEL, FED STD 66, COMP 1078
ST6125	STEEL, FED STD 66, COMP 1080
ST6126	STEEL, FED STD 66, COMP 1084
ST6127	STEEL, FED STD 66, COMP 1085
ST6128	STEEL, FED STD 66, COMP 1086
ST6129	STEEL, FED STD 66, COMP 1090
ST6130	STEEL, FED STD 66, COMP 1095
	Steel, Fed Std 66, SAE 1060 to 1080 (use specific reply)
	Steel, Fed Std 66, SAE 1070 thru 1090 (use specific reply)
	Steel, Fed Std 66, SAE 1080 to 1090 (use specific reply)
ST3863	STEEL, FED STD 66, 302
STA881	STEEL, GM 58M, GENERAL MOTORS CORP
STG258	STEEL, JDMA 15-8, JOHN DEERE AND CO
STB843	STEEL, MIL-C-17625, GRADE A, TYPE 3
ST7586	STEEL, MIL-S-853, CLASS 6, TYPE A
ST7590	STEEL, MIL-S-854, CLASS 1, COND A
ST1676	STEEL, MIL-S-890, CLASS AN
ST2027	STEEL, MIL-S-890, CLASS BS
ST1894	STEEL, MIL-S-5000
ST2839	STEEL, MIL-S-5000, COMP 4340
ST2472	STEEL, MIL-S-5000, COND C
ST2481	STEEL, MIL-S-5000, COND F
ST7559	STEEL, MIL-S-5059, COMP 301, COND 1/2 HARD
STG316	STEEL, MIL-S-5059, TYPE 301, FULL HARD
ST2288	STEEL, MIL-S-5059, TYPE 302
ST1804	STEEL, MIL-S-5626
ST8819	STEEL, MIL-S-5626, COND C1
ST2454	STEEL, MIL-S-5626, COND C4
ST3160	STEEL, MIL-S-5626, COND D
ST3161	STEEL, MIL-S-5626, COND D1
ST2482	STEEL, MIL-S-5626, COND F
STC856	STEEL, MIL-S-5626, COND 4
ST2784	STEEL, MIL-S-6049, COMP 8740
ST8320	STEEL, MIL-S-6049, COND C4
ST1896	STEEL, MIL-S-6050
ST8323	STEEL, MIL-S-6050, COND C1
ST8468	STEEL, MIL-S-6050, COND F
ST2477	STEEL, MIL-S-6050, COND F4

FIG T252  
APPENDIX A

REPLY  
CODE

REPLY (AD09)

ST8472	STEEL, MIL-S-6736, COND A
ST1840	STEEL, MIL-S-6758
ST2778	STEEL, MIL-S-6758, COMP 4130
ST3596	STEEL, MIL-S-6758, COMP 4130, COND D
ST2909	STEEL, MIL-S-6758, COND C4
ST2455	STEEL, MIL-S-6758, COND D
ST2523	STEEL, MIL-S-6758, COND D1
ST2424	STEEL, MIL-S-6758, COND D4
ST2601	STEEL, MIL-S-6758, COND F
ST8333	STEEL, MIL-S-6758, COND F3
ST7033	STEEL, MIL-S-6758, COND F4
	Steel, MIL-S-7097 - CANCELED (use Reply Code ST0636)
	Steel, MIL-S-7097, Comp 1025 - CANCELED (use Reply Code ST1549)
ST9937	STEEL, MIL-S-7108, COND F
ST8347	STEEL, MIL-S-7420, COND A
STB842	STEEL, MIL-S-7493, COMP A4617
ST2423	STEEL, MIL-S-7720
ST7579	STEEL, MIL-S-7720, COMP FM, COND A
ST1640	STEEL, MIL-S-7720, COMP 302
ST3225	STEEL, MIL-S-7720, COMP 302, COND A
ST2798	STEEL, MIL-S-7720, COMP 303
ST2546	STEEL, MIL-S-7720, COMP 303, COND A
ST8011	STEEL, MIL-S-7720, COMP 303, COND B
ST1641	STEEL, MIL-S-7720, COMP 303S
ST2775	STEEL, MIL-S-7720, COMP 303S, COND A
ST1642	STEEL, MIL-S-7720, COMP 303SE
ST2799	STEEL, MIL-S-7720, COMP 303SE, COND A
ST3169	STEEL, MIL-S-7720, COMP 303SE, COND B
ST1643	STEEL, MIL-S-7720, COMP 316
ST8724	STEEL, MIL-S-7720, COND A
ST2868	STEEL, MIL-S-7720, TYPE 303, COND B
ST2592	STEEL, MIL-S-7947, COMP 1095, COND A
ST4087	STEEL, MIL-S-8844, CLASS 1
	Steel, MIL-S-11415, Class C1 - CANCELED (use Reply Code STD538)
	Steel, MIL-S-11415, Class C4 - CANCELED (use Reply Code STD538)
ST8456	STEEL, MIL-S-11486
ST2005	STEEL, MIL-S-13048 - CANCELED
STC855	STEEL, MIL-S-13048, COMP 1340 - CANCELED
ST9542	STEEL, MIL-S-13048, COMP 4140 - CANCELED
STC858	STEEL, MIL-S-13048, COMP 5145 - CANCELED
STC859	STEEL, MIL-S-13048, COMP 6145 - CANCELED
ST9547	STEEL, MIL-S-13048, COMP 8740 - CANCELED
ST2119	STEEL, MIL-S-15464, CLASS 1
STC749	STEEL, MIL-S-15852, CLASS 0-1
ST2814	STEEL, MIL-S-16124, CLASS 1, COMP A - CANCELED
ST2468	STEEL, MIL-S-16782 - CANCELED
ST8987	STEEL, MIL-S-16788

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REPLY  
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REPLY (AD09)

ST2294	STEEL, MIL-S-17758, ALLOY 1
ST2295	STEEL, MIL-S-17758, ALLOY 2
STB837	STEEL, MIL-S-17759
ST2830	STEEL, MIL-S-18729
ST3722	STEEL, MIL-S-18729, COND N
ST8008	STEEL, MIL-S-18732, COND A
ST8286	STEEL, MIL-S-20166, TYPE A, GRADE M
ST2809	STEEL, MIL-S-20166, TYPE B, GRADE M
ST2609	STEEL, MIL-S-25043
ST2610	STEEL, MIL-S-46049
ST3999	STEEL, MIL-S-46049, COMP 1065
STF921	STEEL, MIL-S-46049, COMP 1074
ST4000	STEEL, MIL-S-46049, COMP 1075
ST4001	STEEL, MIL-S-46049, COMP 1085
ST4002	STEEL, MIL-S-46049, COMP 1095
STB839	STEEL, MIL-T-3520, COMP 1015
STC730	STEEL, MIL-T-3520, TYPE 1, COMP 1015
ST8373	STEEL, MIL-T-5695, TYPE 1
ST3680	STEEL, MIL-T-6736
STB841	STEEL, MIL-T-6736, COMP 4130, COND N
STB840	STEEL, MIL-T-6736, COND HT-150
ST8377	STEEL, MIL-T-6736, COND N
ST3320	STEEL, MIL-T-6736, TYPE 1
ST3682	STEEL, MIL-T-6736, TYPE 1, COND N
ST7596	STEEL, MIL-T-6845, TYPE 304
ST8062	STEEL, MIL-T-8506
ST7089	STEEL, MIL-T-8606, TYPE 1, COMP 321
ST3357	STEEL, MIL-W-6101
ST4025	STEEL, MIL-W-52263, CLASS 303 - CANCELED
STA372	STEEL, N, 46-S-17, CLASS 1
STB334	STEEL, N, 46-S-17, CLASS 2
STAW00	STEEL, PEARLITE MANGANESE
ST8505	STEEL, QQ-S-624, COMP E52100 - CANCELED
ST1458	STEEL, QQ-S-624, COMP 4130 - CANCELED
ST1460	STEEL, QQ-S-624, COMP 4135 - CANCELED
ST1464	STEEL, QQ-S-624, COMP 4140 - CANCELED
ST1474	STEEL, QQ-S-624, COMP 4340 - CANCELED
ST1495	STEEL, QQ-S-624, COMP 5140 - CANCELED
ST1515	STEEL, QQ-S-624, COMP 8630 - CANCELED
ST9601	STEEL, QQ-S-624, COMP 8635 - CANCELED
ST1517	STEEL, QQ-S-624, COMP 8640 - CANCELED
ST1857	STEEL, QQ-S-624, COMP 8740 - CANCELED
STA652	STEEL, QQ-S-624, FS4130 - CANCELED
STA650	STEEL, QQ-S-624, FS5130 - CANCELED
STA651	STEEL, QQ-S-624, FS8630 - CANCELED
ST0935	STEEL, QQ-S-626, COMP 4130
STB851	STEEL, QQ-S-626, COMP 5130

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ST2773

REPLY (AD09)

STEEL, QQ-S-626, COMP 8630

Steel, QQ-S-00629, FS4135, Type 1, Cond A - CANCELED (use Reply Code ST6878)

Steel, QQ-S-00629, FS4140, Type 1 - CANCELED (use Reply Code ST6645)

Steel, QQ-S-00629, FS4140, Type 1, Cond A - CANCELED (use Reply Code ST6645)

Steel, QQ-S-00629, FS8635, Type 1 - CANCELED (use Reply Code ST6814)

Steel, QQ-S-00629, FS8635, Type 1, Cond A - CANCELED (use Reply Code ST6814)

Steel, QQ-S-00629, FS8640, Type 1, Cond A - CANCELED (use Reply Code ST6720)

Steel, QQ-S-00629, FS8740, Type 1 - CANCELED (use Reply Code ST6730)

Steel, QQ-S-00629, FS8740, Type 1, Cond A - CANCELED (use Reply Code ST6730)

Steel, QQ-S-633, Amend 2, 1065 to 1090 - CANCELED (see QQ-S-631)

Steel, QQ-S-633, B1112 - CANCELED (use Reply Code ST2334)

Steel, QQ-S-633, B1113 - CANCELED (use Reply Code ST2335)

Steel, QQ-S-633 - CANCELED (use QQ-S-630, QQ-S-631, or QQ-S-637)

Steel, QQ-S-633, Comp B1113 - CANCELED (use Reply Code ST2335)

Steel, QQ-S-633, Comp C1010 - CANCELED (use Reply Code ST1545)

Steel, QQ-S-633, Comp C1018 - CANCELED (use Reply Code ST1548)

Steel, QQ-S-633, Comp C1018, Cond CF - CANCELED (use Reply Code ST1548)

Steel, QQ-S-633, Comp C1022 - CANCELED (use Reply Code ST1698)

Steel, QQ-S-633, Comp C1035 - CANCELED (use Reply Code ST1550)

Steel, QQ-S-633, Comp C1045 - CANCELED (use Reply Code ST1552)

Steel, QQ-S-633, Comp C1117 - CANCELED (use Reply Code ST1555)

Steel, QQ-S-633, Comp C1117, Cond ANL - CANCELED (use Reply Code ST1555)

Steel, QQ-S-633, Comp C1118 - CANCELED (use Reply Code ST1556)

Steel, QQ-S-633, Comp C1137 - CANCELED (use Reply Code ST1557)

Steel, QQ-S-633, Comp FSB1112 - CANCELED (use Reply Code ST2334)

Steel, QQ-S-633, Comp FS1052 - CANCELED (use Reply Code ST6587)

Steel, QQ-S-633, Comp FS1117 - CANCELED (use Reply Code ST1555)

Steel, QQ-S-633, Comp FS1117 - CANCELED (use Reply Code ST1555)

Steel, QQ-S-633, Comp FS1117 - Cond Annealed - CANCELED (use Reply Code ST1555)

Steel, QQ-S-633, Comp FS1117 - Cond Cold-Finished - CANCELED (use Reply Code ST1555)

Steel, QQ-S-633, Comp FS1118 - CANCELED (use Reply Code ST1556)

Steel, QQ-S-633, FS B1112 - CANCELED (use Reply Code ST2334)

Steel, QQ-S-633, FS B1113 - CANCELED (use Reply Code ST2335)

Steel, QQ-S-633, FS1010 - CANCELED (use Reply Code ST1545)

Steel, QQ-S-633, FS1015 - CANCELED (use Reply Code ST1546)

Steel, QQ-S-633, FS1016 - CANCELED (use Reply Code ST1547)

Steel, QQ-S-633, FS1018 - CANCELED (use Reply Code ST1548)

Steel, QQ-S-633, FS1019 - CANCELED (use Reply Code ST1696)

Steel, QQ-S-633, FS1020 - CANCELED (use Reply Code ST1697)

Steel, QQ-S-633, FS1021 - CANCELED (use Reply Code ST6341)

Steel, QQ-S-633, FS1022 - CANCELED (use Reply Code ST1698)

Steel, QQ-S-633, FS1025 - CANCELED (use Reply Code ST1549)

Steel, QQ-S-633, FS1035 - CANCELED (use Reply Code ST1550)

Steel, QQ-S-633, FS1040 - CANCELED (use Reply Code ST1551)

Steel, QQ-S-633, FS1045 - CANCELED (use Reply Code ST1552)

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REPLY  
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REPLY (AD09)

Steel, QQ-S-633, FS1112 - CANCELED (use Reply Code ST2330)  
Steel, QQ-S-633, FS1113 - CANCELED (use Reply Code ST2331)  
Steel, QQ-S-633, FS1117 - CANCELED (use Reply Code ST1555)  
Steel, QQ-S-633, FS1120 - CANCELED (use Reply Code ST1309)  
Steel, QQ-S-633, FS1137 - CANCELED (use Reply Code ST1557)  
Steel, QQ-S-633, FS1141 - CANCELED (use Reply Code ST1558)  
Steel, Qq-S-633, FS6322 - CANCELED (invalid)  
Steel, QQ-S-633, FS8640 - CANCELED (use Reply Code ST6527)  
Steel, QQ-S-633, Type FS1117 - CANCELED (use Reply Code ST1555)  
Steel, QQ-S-633A, B1113 - CANCELED (use Reply Code ST2335)  
Steel, QQ-S-633A - CANCELED (see QQ-S-630, QQ-S-631, or QQ-S-637)  
Steel, QQ-S-633A, C1117 - CANCELED (use Reply Code ST1555)  
Steel, QQ-S-633A, FS B1113 - CANCELED (use Reply Code ST2335)  
ST0636 STEEL, QQ-S-634 - CANCELED  
ST1545 STEEL, QQ-S-634, COMP 1010 - CANCELED  
ST1546 STEEL, QQ-S-634, COMP 1015 - CANCELED  
ST1547 STEEL, QQ-S-634, COMP 1016 - CANCELED  
ST1548 STEEL, QQ-S-634, COMP 1018 - CANCELED  
ST1696 STEEL, QQ-S-634, COMP 1019 - CANCELED  
ST1697 STEEL, QQ-S-634, COMP 1020 - CANCELED  
ST1698 STEEL, QQ-S-634, COMP 1022 - CANCELED  
ST1549 STEEL, QQ-S-634, COMP 1025 - CANCELED  
ST1550 STEEL, QQ-S-634, COMP 1035 - CANCELED  
ST1551 STEEL, QQ-S-634, COMP 1040 - CANCELED  
ST1552 STEEL, QQ-S-634, COMP 1045 - CANCELED  
ST0942 STEEL, QQ-S-635, COMP 1020  
ST2334 STEEL, QQ-S-637, COMP B1112  
ST2335 STEEL, QQ-S-637, COMP B1113  
ST1555 STEEL, QQ-S-637, COMP 1117  
ST1556 STEEL, QQ-S-637, COMP 1118  
ST1557 STEEL, QQ-S-637, COMP 1137  
ST1558 STEEL, QQ-S-637, COMP 1141  
ST2330 STEEL, QQ-S-637, COMP 1212  
ST2331 STEEL, QQ-S-637, COMP 1213  
Steel, QQ-S-637, Comp 1213, Cond CD (use Reply Code ST2331)  
ST3276 STEEL, QQ-S-637, C1117  
ST3277 STEEL, QQ-S-637, C1117, COND CR  
Steel, QQ-S-00640 - CANCELED (use Reply Code STD665)  
Steel, QQ-S-640, FS1009 to FS1020 - CANCELED (use Reply Code STD665)  
Steel, QQ-S-640, FS1065 to FS1075 - CANCELED (use Reply Code STD665)  
Steel, QQ-S-00643, Comp FS1000 - CANCELED (invalid)  
ST3737 STEEL, QQ-S-681, CLASS 4A1  
Steel, QQ-S-685 - CANCELED (invalid)  
ST0977 STEEL, QQ-S-698  
STB888 STEEL, QQ-S-700, COMP 1065  
STC013 STEEL, QQ-S-700, COMP 1074  
STC424 STEEL, QQ-S-700, COMP 1080

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REPLY (AD09)

STG268	STEEL, QQ-S-700, COMP 1084
STG269	STEEL, QQ-S-700, COMP 1085
STG270	STEEL, QQ-S-700, COMP 1086
ST8774	STEEL, QQ-S-700, COMP 1095
ST2032	STEEL, QQ-S-763
ST9892	STEEL, QQ-S-763, CLASS 3, TYPE A
ST2650	STEEL, QQ-S-763, CLASS 6
ST3182	STEEL, QQ-S-763, CLASS 6, TYPE A
ST2796	STEEL, QQ-S-763, CLASS 6, TYPE C
ST7610	STEEL, QQ-S-763, CLASS 7
ST2652	STEEL, QQ-S-763, CLASS 7, TYPE A
ST8811	STEEL, QQ-S-763, CLASS 10, TYPE A
ST1646	STEEL, QQ-S-763, CLASS 302
ST1647	STEEL, QQ-S-763, CLASS 303
ST1778	STEEL, QQ-S-763, CLASS 303, COND A
ST1648	STEEL, QQ-S-763, CLASS 303SE
ST1649	STEEL, QQ-S-763, CLASS 304
ST1839	STEEL, QQ-S-763, CLASS 304, COND A
STB551	STEEL, QQ-S-763, CLASS 310, COND A
ST1784	STEEL, QQ-S-763, CLASS 316, COND A
ST1656	STEEL, QQ-S-763, CLASS 321
ST2369	STEEL, QQ-S-763, CLASS 321, COND A
ST1657	STEEL, QQ-S-763, CLASS 347
ST1660	STEEL, QQ-S-763, CLASS 410
ST1786	STEEL, QQ-S-763, CLASS 410, COND H
ST1662	STEEL, QQ-S-763, CLASS 416
ST2701	STEEL, QQ-S-763, CLASS 416, COND A
ST1787	STEEL, QQ-S-763, CLASS 416, COND H
ST3198	STEEL, QQ-S-763, CLASS 416, COND T
ST1666	STEEL, QQ-S-763, CLASS 431
ST1668	STEEL, QQ-S-763, CLASS 440C
ST3209	STEEL, QQ-S-763, COND A
ST3279	STEEL, QQ-S-763B, CLASS 303 OR 303SE, COND A OR B
ST3280	STEEL, QQ-S-763B, CLASS 416
STB835	STEEL, QQ-S-764, COMP 303, COND A - CANCELED
ST8068	STEEL, QQ-S-764, COND A - CANCELED
ST1767	STEEL, QQ-S-764, TYPE 303 - CANCELED
ST1859	STEEL, QQ-S-764, TYPE 303, COND A - CANCELED
ST2394	STEEL, QQ-S-764, TYPE 303, COND B - CANCELED
ST1768	STEEL, QQ-S-764, TYPE 303SE - CANCELED
ST1860	STEEL, QQ-S-764, TYPE 303SE, COND A - CANCELED
ST2389	STEEL, QQ-S-764, TYPE 303SE, COND B - CANCELED
ST2436	STEEL, QQ-S-764, TYPE 416, COND A - CANCELED
ST2406	STEEL, QQ-S-764, TYPE 416, COND H - CANCELED
ST2437	STEEL, QQ-S-764, TYPE 416SE, COND A - CANCELED
ST1777	STEEL, QQ-S-764, TYPE 430FSE - CANCELED
ST7650	STEEL, QQ-S-766, CLASS 2, COND A

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REPLY  
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REPLY (AD09)

ST1746	STEEL, QQ-S-766, CLASS 201
ST1748	STEEL, QQ-S-766, CLASS 301
ST1750	STEEL, QQ-S-766, CLASS 302
ST2626	STEEL, QQ-S-766, CLASS 304, COND A
STA305	STEEL, QQ-S-766, CLASS 316L, COND A
ST1760	STEEL, QQ-S-766, CLASS 321
ST1761	STEEL, QQ-S-766, CLASS 347
ST1764	STEEL, QQ-S-766, CLASS 420
	Steel, QQ-S-777, 1060 to 1070 - Canceled (use specific reply)
ST8411	STEEL, QQ-T-00825, COMP 4140 - CANCELED
STB900	STEEL, QQ-T-00825, COMP 8640 - CANCELED
STC826	STEEL, QQ-T-00825, COMP 8740 - CANCELED
ST7497	STEEL, QQ-T-825, COMP 4140 - CANCELED
	Steel, QQ-T-830, COMP MT1015 - CANCELED (use Reply Code ST6342)
STB833	STEEL, QQ-W-409, GROUP 2, COMP 1020 - CANCELED
ST2628	STEEL, QQ-W-423, COMP 302, COND B
ST3245	STEEL, QQ-W-423, COMP 302, FORM 1, COND B
ST3529	STEEL, QQ-W-423, COMP 304, COND B
ST3246	STEEL, QQ-W-423, COMP 304, FORM 1, CONB B
ST9906	STEEL, QQ-W-423, COMP 305, COND B
ST9904	STEEL, QQ-W-423, COMP 316, COND B
STB830	STEEL, QQ-W-423, FORM 1, COMP 410, COND A
ST1670	STEEL, QQ-W-423, 302
ST3429	STEEL, QQ-W-428, TYPE 1
STB824	STEEL, QQ-W-461, COMP 1006, FINISH 1
STB825	STEEL, QQ-W-461, COMP 1008, FINISH 1
STB826	STEEL, QQ-W-461, COMP 1010, FINISH 1
STB827	STEEL, QQ-W-461, COMP 1015, FINISH 1
STB828	STEEL, QQ-W-461, COMP 1018, FINISH 1
STB829	STEEL, QQ-W-461, COMP 1020, FINISH 1
STB832	STEEL, QQ-W-461, FORM 1, GRADE FS1010, FINISH 1
STB831	STEEL, QQ-W-461, FORM 1, GRADE FS1020, FINISH 1
ST3183	STEEL, QQ-W-470
STA530	STEEL, QQ-W-470, COMP A
ST3443	STEEL, QQ-W-474, COMP B - CANCELED
STG136	STEEL, S.201, DUNLOP LTD
STG057	STEEL, SAE J178
STG005	STEEL, SAE J316
STB850	STEEL, SAE J403, COMP 1008
STA935	STEEL, SAE 302
ST6559	STEEL, SAE 1010
ST6561	STEEL, SAE 1015
ST6015	STEEL, SAE 1020
ST6571	STEEL, SAE 1030
ST6587	STEEL, SAE 1052
ST6589	STEEL, SAE 1055
ST6590	STEEL, SAE 1060

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
ST6591	STEEL, SAE 1064
ST6592	STEEL, SAE 1065
STA616	STEEL, SAE 1066
STF597	STEEL, SAE 1069
ST6593	STEEL, SAE 1070
STF598	STEEL, SAE 1072
ST6594	STEEL, SAE 1074
ST8433	STEEL, SAE 1075
ST6595	STEEL, SAE 1078
ST6596	STEEL, SAE 1080
ST6597	STEEL, SAE 1084
ST6598	STEEL, SAE 1085
ST6599	STEEL, SAE 1086
ST6600	STEEL, SAE 1090
ST6601	STEEL, SAE 1095
ST6605	STEEL, SAE 1112
ST6606	STEEL, SAE 1113
ST6641	STEEL, SAE 4130
ST6878	STEEL, SAE 4135
ST6645	STEEL, SAE 4140
ST6659	STEEL, SAE 4340
ST6720	STEEL, SAE 8640
ST6730	STEEL, SAE 8740
ST8562	STEEL, SAE 30303F
ST6890	STEEL, SAE 51410
STF000	STEEL, SPRING
STD000	STEEL, STAINLESS Steel, Stainless, QQ-S-763, Class 303 (use Reply Code ST1647)
STG271	STEEL, ST0160LB0012, ALLOY 9-4-30, ROCKWELL INTERNATIONAL CORP
ST8383	STEEL, WW-T-731, COMP A - CANCELED
STA211	STEEL, 1E303, CATERPILLAR TRACTOR CO
STC317	STEEL, 1E463, CATERPILLAR TRACTOR CO
STG145	STEEL, 1E779, CATERPILLAR TRACTOR CO
ST8582	STEEL, 17-7PH, ARMCO STEEL CORP
STG259	STEEL, 74, GENERAL MOTORS CORP
STG053	STEEL, 1202-B, GENERAL MOTORS CORP
SN0000	TIN
TT0000	TITANIUM ALLOY
TT0016	TITANIUM ALLOY, AMS 4967
WE0000	WIRE
WEF000	WIRE, STEEL
WE0007	WIRE, STEEL, MUSIC, QQ-W-470
ZN0000	ZINC
ZNL000	ZINC ALLOY

Table 2 - SURFACE TREATMENTS  
SURFACE TREATMENTS

<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
AZ0000	ALUMINIZED
ANL000	ANODIC
ANM000	ANODIC BLACK MATTE
AN0095	ANODIZE, P.S. 13201, MCDONNELL DOUGLAS CORP, MCDONNELL AIRCRAFT DIV
AN0000	ANODIZED
ANA000	ANODIZED BLACK Anodized Dyed Black (use Reply Code ANA000)
AN0002	ANODIZED, MIL-A-8625
AN0003	ANODIZED, MIL-A-8625, TYPE 1
AN0005	ANODIZED, MIL-A-8625, TYPE 1, CLASS 1
AN0006	ANODIZED, MIL-A-8625, TYPE 1, CLASS 2
AN0004	ANODIZED, MIL-A-8625, TYPE 2
AN0007	ANODIZED, MIL-A-8625, TYPE 2, CLASS 1
AN0008	ANODIZED, MIL-A-8625, TYPE 2, CLASS 2
AN0009	ANODIZED, MIL-A-8625, TYPE 3, CLASS 1
AN0291	ANODIZED, PS102-1, DOWTY ROTOL LTD
ANJ000	ANODIZED W/ENAMEL
AN0296	ANODIZED, 9-3487, THE BENDIX CORP
A	ANY ACCEPTABLE
APD000	ASPHALT, BLACK, VARNISH COATED
ANK000	BLACK ALUMINUM ANODIZE
BBE000	BLACK CHEMICAL
BBS000	BLACK DIP
BBT000	BLACK DYE Black Enameled (use Reply Code ENF000)
BB0000	BLACK NICKEL
BBD000	BLACK NICKEL PLATED
BA0000	BLACK OXIDE
BA0008	BLACK OXIDE, MIL-C-13924
BA0002	BLACK OXIDE, MIL-C-13924, CLASS 1
BAA000	BLACK OXIDE OR PHOSPHATE
BBW000	BLACKENED
BLB000	BLUE DIPPED
BR0000	BRASS
BPA000	BRIGHT ALLOY
BRX000	BRIGHT BRASS POLISHED
BN0000	BRONZE
CD0000	CADMIUM
CD0001	CADMIUM, AMS 2400 Cadmium and Enamel (use Reply Codes CD0000 and EN0000)
CD0704	CADMIUM-CHROMATE, BAC 5701, TYPE 2, CLAS 2, THE BOEING CO
CDD000	CADMIUM, DICHROMATE TREATED
CD0700	CADMIUM, DTD904, PLESSEY CO LTD

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
CDAH00	CADMIUM FLASH
CD0243	CADMIUM, GM 4341-M, GENERAL MOTORS CORP
CD0170	CADMIUM, MIL-C-8837, TYPE 1, CLASS 1
CD0064	CADMIUM, MIL-C-8837, TYPE 2, CLASS 2
CD0629	CADMIUM, MIL-C-81562, TYPE 2, CLASS 2
CD0712	CADMIUM, MIL-C-81562, TYPE 2, CLASS 3 Cadmium or Zinc Plated with Chromate (use Reply Codes CD0000 or ZNAN00) Cadmium or Zinc (use Reply Codes CD0000 or ZN0000)
CDR000	CADMIUM PLATED
CD0060	CADMIUM PLATED FINISH, QQ-P-416A, TYPE 2, CLASS 3 Cadmium Plated w/Chromate (use Reply Codes CD0000 and CN0000)
CD0703	CADMIUM, PS100-5, DOWTY ROTOL LTD
CD0289	CADMIUM, PS13101, TYPE 2, CLASS 2, MCDONNELL DOUGLAS CORP
CD0005	CADMIUM, QQ-P-416, TYPE 1, CLASS 2
CD0006	CADMIUM, QQ-P-416, TYPE 1, CLASS 3
CD0007	CADMIUM, QQ-P-416, TYPE 2, CLASS 1
CD0008	CADMIUM, QQ-P-416, TYPE 2, CLASS 2
CD0009	CADMIUM, QQ-P-416, TYPE 2, CLASS 3
CD0707	CADMIUM-TITANIUM, MM5542, CLASS 1, TYPE 2, MENASCO INC Cadmium w/Chromate (use Reply Codes CD0000 and CN0000)
CN0000	CHROMATE
CNA000	CHROMATE DIPPED
CN0010	CHROMATE, MIL-C-5541
CHA000	CHROME-NICKEL PLATED
KDB000	CHROMIC ACID
KDC000	CHROMIC ACID ANODIC
KDA000	CHROMIC ACID ANODIZE
KDD000	CHROMIC ACID ANODIZE BLACK ALUMINUM
KDE000	CHROMIC ACID ANODIZED BLACK
KDF000	CHROMIC ACID BLACK ANODIC FILM
CRD000	CHROMIUM ALLOY
CRA000	CHROMIUM PLATED
FN0103	COATING, ALUMINUM, MIL-C-83488, CLASS 2, TYPE 2
FN0106	COATING, ZINC-CHROMATE, MIL-C-87115, CLASS 1
CUN000	COPPER PLATED
DC0000	DICHROMATE
DCB000	DICHROMATE DIP Dull Black Lacquer (use Reply Code LQD000)
EN0000	ENAMEL
ENF000	ENAMEL, BLACK
EN0166	ENAMEL, MMS420, MCDONNELL DOUGLAS CORP
EN0177	ENAMEL, MMS420, NATIONAL WATER LIFT CO
ENC000	ENAMELED
GB0000	GALVANIZED
AUG000	GOLD PLATED
MMB000	IMMUNIZED NITRIC ACID DIP
JA0000	JAPAN

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
LQ0000	LACQUER
LQD000	LACQUER, BLACK
LQN000	LACQUER-ENAMELED
NF0000	NICKEL
NFAL00	NICKEL ACETATE
NFL000	NICKEL, DULL
NFAK00	NICKEL FLASH
NFG000	NICKEL PLATED
NF0298	NICKEL PLATED, MIL-C-26074
NF0203	NICKEL PLATED, QQ-N-290, CLASS 2
NF0629	NICKEL-TIN PLATED, LA0109-025, ROCKWELL INTERNATIONAL CORP
NFM000	NICKEL, WHITE
NFAJ00	NICKEL, ZINC OR CADMIUM PLATED
XX0000	OXIDE
XX0047	OXIDE, MIL-C-13924, CLASS 1
XX0049	OXIDE, MIL-C-13924, CLASS 4
XX0073	OXIDE, MIL-F-495
PN0234	PAINT, PS622, DOWTY ROTOL LTD
PN0235	PAINT, PS923, DOWTY ROTOL LTD
PN0000	PAINTED
PS0000	PASSIVATED
PS0328	PASSIVATED, ACES 16, AEROQUIP CORP, AEROSPACE-MARMAN DIV
PS0076	PASSIVATED, ACES16P3, AEROQUIP CORP, AIRCRAFT DIV, JACKSON PLANT
PS0427	PASSIVATED, ACES16P7, AEROQUIP CORP
PS0033	PASSIVATED, ASTM A380
PS0413	PASSIVATED, C 5041, AIRESEARCH MFG CO
PS0008	PASSIVATED, MIL-F-14072, FINISH E300
PS0003	PASSIVATED, MIL-S-5002
	Passivated, MIL-STD-171, Finish No 5.4.1 (use Reply Code PS0272)
PS0272	PASSIVATED, MIL-STD-171, FINISH 5.4.1
PS0057	PASSIVATED, PS13001, MCDONNELL DOUGLAS CORP
PS0564	PASSIVATED, PS13001, NATIONAL WATER LIFT CO
PS0560	PASSIVATED, PS13001, PARKER-HANNIFIN CORP
PS0007	PASSIVATED, QQ-P-35
PS0004	PASSIVATED, QQ-P-35, TYPE 1
PS0005	PASSIVATED, QQ-P-35, TYPE 2
PS0006	PASSIVATED, QQ-P-35, TYPE 3
PS0552	PASSIVATED, SPS1017, WHITTAKER CORP
PS0547	PASSIVATED, SS8435, PNEUMO CORP
PS0559	PASSIVATED, STS 206, STERER ENGINEERING AND MFG CO
PSC000	PASSIVATED W/BLACK OXIDE
PS0426	PASSIVATED, 29000011, TEXTRON INC
PE0000	PENETRATE
PH0000	PHOSPHATE
PHH000	PHOSPHATE COATED
PHK000	PHOSPHATE COATED, MANGANESE BASE
PH0140	PHOSPHATE, DOD-P-16232

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<u>REPLY CODE</u>	<u>REPLY (AD09)</u>
PH0152	PHOSPHATE, DOD-P-16232, TYPE Z
PH0141	PHOSPHATE, DOD-P-16232, TYPE Z, CLASS 2
PH0145	PHOSPHATE MANGANESE, DOD-P-16232, TYPE M, CLASS 4
PH0001	PHOSPHATE, MIL-C-16232, TYPE 2 - CANCELED
PH0004	PHOSPHATE, MIL-P-16232, TYPE M, CLASS 2
PH0012	PHOSPHATE, MIL-P-16232, TYPE Z, CLASS 2
PHJ000	PHOSPHATE OR BLACK OXIDE
PH0149	PHOSPHATE ZINC, DOD-P-16232, TYPE Z, CLASS 4
PZ0000	PHOSPHOR BRONZE
PC0422	PLASTIC, URETHANE, MIL-C-83286
ENAP00	SEMIGLOSS OLIVE DRAB ENAMEL
AG0015	SILVER, AMS 2412
AGE000	SILVER PLATED
AGF000	SILVER PLATED WITH RHODIUM FLASH
AG0006	SILVER, QQ-S-365, TYPE 1, GRADE B
FMC000	SULPHURIC ACID ANODIC FILM
ANP000	SULPHURIC ACID ANODIZED BLACK
ANQ000	SULPHURIC ACID ANODIZED W/HOT WATER SEAL
FM0016	SULPHURIC ACID FILM, AN-QQ-A-696
FMD000	SULPHURIC ACID OR CHROMIC ACID ANODIC FILM
SN0000	TIN
SNT000	TIN FLASH
SNF000	TIN PLATED
TDA000	TINNED
TT0191	TITANIUM-CADMIUM PLATE, FP-68, AIRESEARCH MFG CO
VAB000	VARNISH
ZN0000	ZINC
ZN0360	ZINC, ASTM B633
ZN0356	ZINC, ASTM B633, TYPE 2
ZNAK00	ZINC BASE, PHOSPHATE COATED
ZNS000	ZINC COATED
ZNC000	ZINC, DICHROMATE TREATED
ZN0132	ZINC, GM 4342-M, GENERAL MOTORS CORP
ZNAL00	ZINC OR CADMIUM DICHROMATE
ZNAM00	ZINC OR CADMIUM PLATED
ZNAJ00	ZINC PLATE, BRIGHT
ZNN000	ZINC PLATED
ZN0378	ZINC PLATED, MIL-C-81562, TYPE 2, CLASS 2
ZNAN00	ZINC PLATED W/CHROMATE
ZN0006	ZINC, QQ-Z-325, TYPE 2, CLASS 3

Table 3 - THREAD SERIES DESIGNATORS  
THREAD SERIES DESIGNATORS

<u>REPLY CODE</u>	<u>REPLY (AH06)</u>
AM	ACME

<u>REPLY CODE</u>	<u>REPLY (AH06)</u>
AC	ACME C
A	ANY ACCEPTABLE
AW	ASA
DP	BRITISH STANDARD BUTTRESS
TT	BUTTRESS
SM	ISO M
AX	N SPECIAL
NN	NONSTANDARD
BB	NONSTANDARD SPECIAL
SL	NPSL
SW	SAE
SJ	SI
AY	SPECIAL
AZ	SPECIAL ACME
UN	UN
NC	UNC
NE	UNEF
BC	UNEF (nonstandard)
NF	UNF
BD	UNG
NJ	UNJ
JE	UNJEF
JF	UNJF
BG	UNJS
NS	UNS
BH	UNS (nonstandard)
BJ	USF

Table 4 - DRIVE TYPES  
DRIVE TYPES

<u>REPLY CODE</u>	<u>REPLY (AG25)</u>
A	ANY ACCEPTABLE
CM	DRILLED FACE
CN	DRILLED PERIPHERY
CP	EXTERNALLY SLOTTED
CQ	HEX HEAD
CR	HEX RECESSED FACE
CS	HEX SHAPED CENTER HOLE
CT	INTERNAL GROOVE
CW	KEY
CX	KEYWAY
CY	KNURLED FACE
CZ	KNURLED PERIPHERY
DA	LUG FACE
DB	MILLED WRENCHING FLATS
NL	RECTANGULAR HOLE

<u>REPLY CODE</u>	<u>REPLY (AG25)</u>
DC	SCALLOP
DD	SLOTTED BORE
DE	SLOTTED FACE
DF	SLOTTED INNER FACE
AK	SOCKET
DG	SQUARE NUT
DH	TAPPED FACE

Table 5 - NONDEFINITIVE SPEC/STD DATA  
NONDEFINITIVE SPEC/STD DATA

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
AL	ALLOY
AN	ANNEX
AP	APPENDIX
AC	APPLICABILITY CLASS
AR	ARRANGEMENT
AS	ASSEMBLY
AB	ASSORTMENT
BX	BOX
CY	CAPACITY
CA	CASE
CT	CATEGORY
CL	CLASS
CE	CODE
CR	COLOR
CC	COMBINATION CODE
CN	COMPONENT
CP	COMPOSITION
CM	COMPOUND
CD	CONDITION
CS	CONSTRUCTION
DE	DESIGN
DG	DESIGNATOR
DW	DRAWING NUMBER
EG	EDGE
EN	END
FY	FAMILY
FG	FIGURE
FN	FINISH
FM	FORM
FA	FORMULA
GR	GRADE
GP	GROUP
BA	IMAGE COLOR
NS	INSERT
TM	ITEM

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APPENDIX A

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
KD	KIND
KT	KIT
LG	LENGTH
LT	LIMIT
MK	MARK
AA	MARKER
ML	MATERIAL
BB	MAXIMUM DENSITY
MH	MESH
ME	METHOD
BC	MINIMUM DENSITY
MD	MODEL
MT	MOUNTING
NR	NUMBER
PT	PART
PN	PATTERN
PC	PHYSICAL CONDITION
PS	PIECE
PL	PLAN
PR	POINT
QA	QUALITY
RN	RANGE
RT	RATING
RF	REFERENCE NUMBER
SC	SCHEDULE
SB	SECTION
SL	SELECTION
SE	SERIES
SV	SERVICE
SX	SET
SA	SHADE
SH	SHAPE
SG	SHEET
SZ	SIZE
PZ	SPECIES
SQ	SPECIFICATION SHEET
SD	SPEED
ST	STYLE
SS	SUBCLASS
SF	SUBFORM
SP	SUBTYPE
SN	SURFACE CONDITION
SY	SYMBOL
SM	SYSTEM
TB	TABLE
TN	TANNAGE
TP	TEMPER
TX	TEXTURE

<u>REPLY CODE</u>	<u>REPLY (AD08)</u>
TK	THICKNESS
TT	TREATMENT
TR	TRIM
TY	TYPE
YN	UNIT
VA	VARIETY
WT	WEIGHT
WD	WIDTH

Table 6 - HARDNESS RATING SCALES  
HARDNESS RATING SCALES

<u>REPLY CODE</u>	<u>REPLY (AC26)</u>
BN	BRINELL
RA	ROCKWELL A
RB	ROCKWELL B
RC	ROCKWELL C
RD	ROCKWELL D
RE	ROCKWELL E
RF	ROCKWELL F
RG	ROCKWELL G
RK	ROCKWELL K
RS	ROCKWELL SUPERFICIAL 15-N
RT	ROCKWELL SUPERFICIAL 15-T
RU	ROCKWELL SUPERFICIAL 30-N
RW	ROCKWELL SUPERFICIAL 30-T
RN	ROCKWELL SUPERFICIAL 45-N
RX	ROCKWELL SUPERFICIAL 45-T
SC	SHORE SCLEROSCOPE
AF	VICKERS

**Reference Drawing Groups**

REFERENCE DRAWING GROUP A Tables ..... 101  
REFERENCE DRAWING GROUP A..... 102  
REFERENCE DRAWING GROUP C ..... 108  
REFERENCE DRAWING GROUP D Tables ..... 109  
REFERENCE DRAWING GROUP D..... 110

REFERENCE DRAWING GROUP A Tables  
RETAINING RING STYLES

INDEX OF MASTER REQUIREMENT CODES

NOTE: STYLES INCLUDED IN THIS GROUP ARE TO BE CONSIDERED REPRESENTATIVE AND ARE NOT RESTRICTIVE TO THE DEGREE OF GAP OPENING, SPECIFIC END STYLE, OR CROSS SECTION OF THE ITEM.

LETTERS H AND J ARE FOR REFERENCE PURPOSES ONLY. STYLES SHOWING LETTER H HAVE VARYING DEGREES OF GAP OPENINGS. STYLES SHOWING LETTER J INDICATE APPLICATIONALLY INTERCHANGEABLE END STYLES, AS REPRESENTED IN REFERENCE DRAWING GROUP C.

DO NOT CONSIDER ITEM CROSS SECTION WHEN DETERMINING STYLE NUMBER FOR THIS GROUP. SEE REFERENCE DRAWING GROUP D.

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AARXJAA1.081\*; AARXJLA27.6\*; AARXJAB1.079\$\$JAC1.083\*)

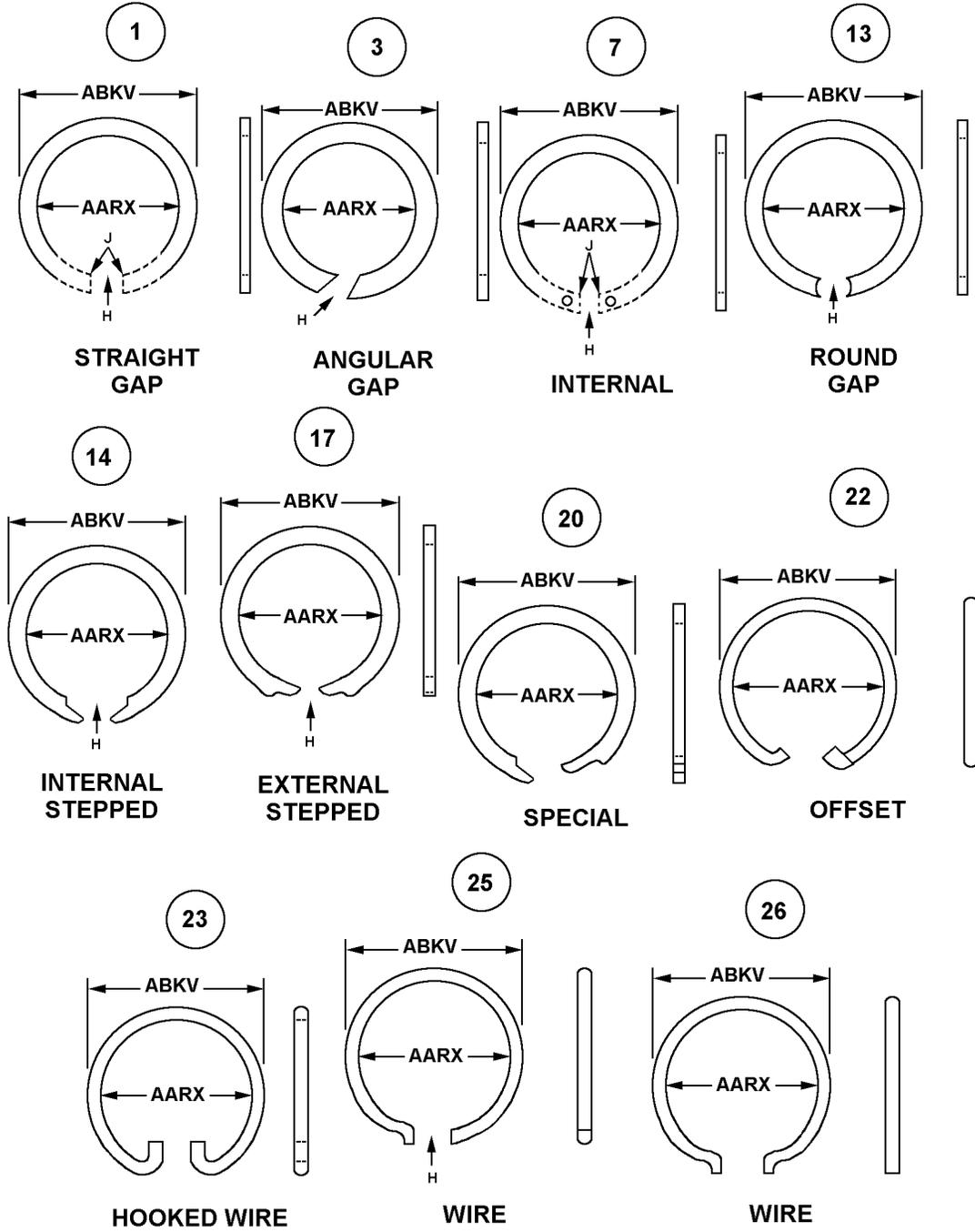
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

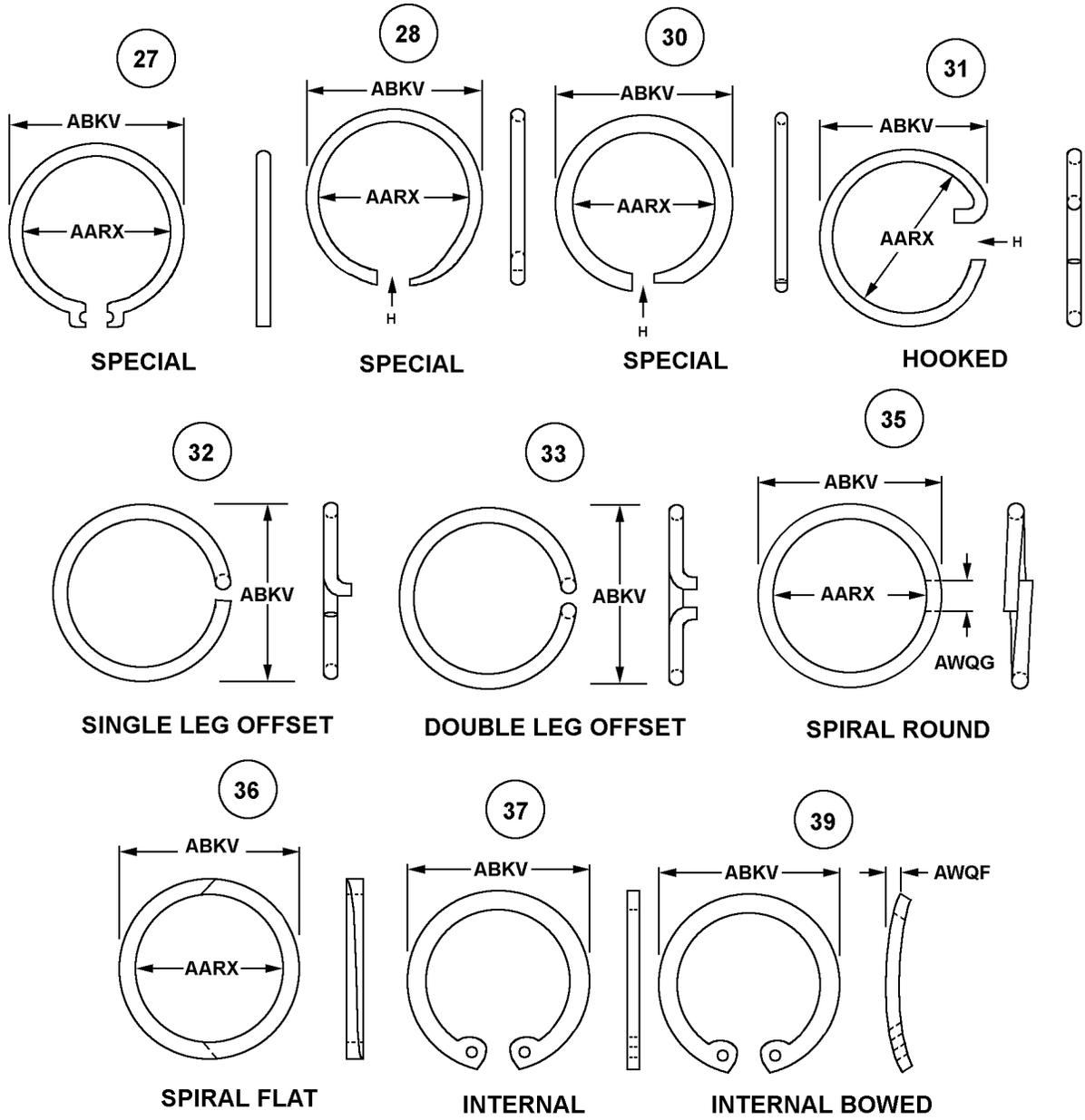
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

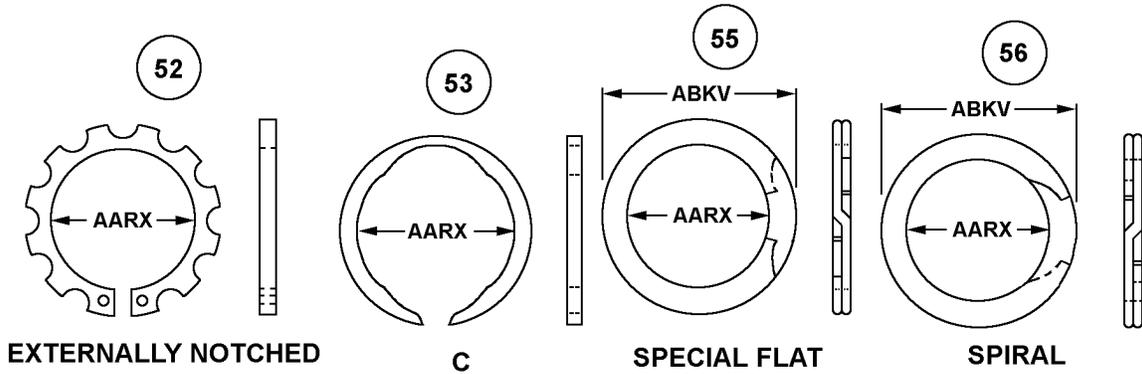
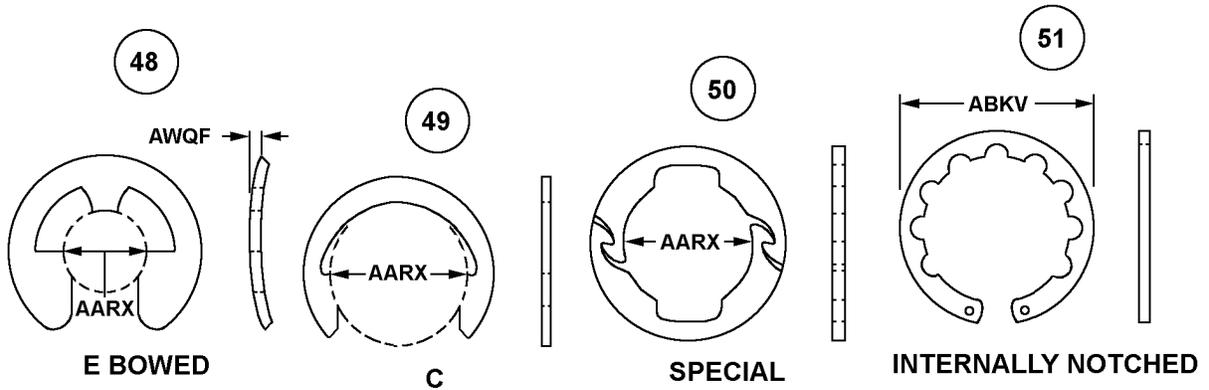
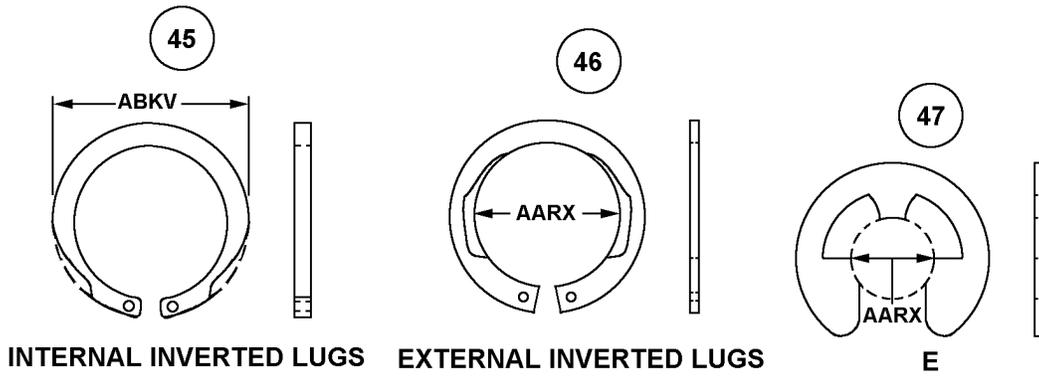
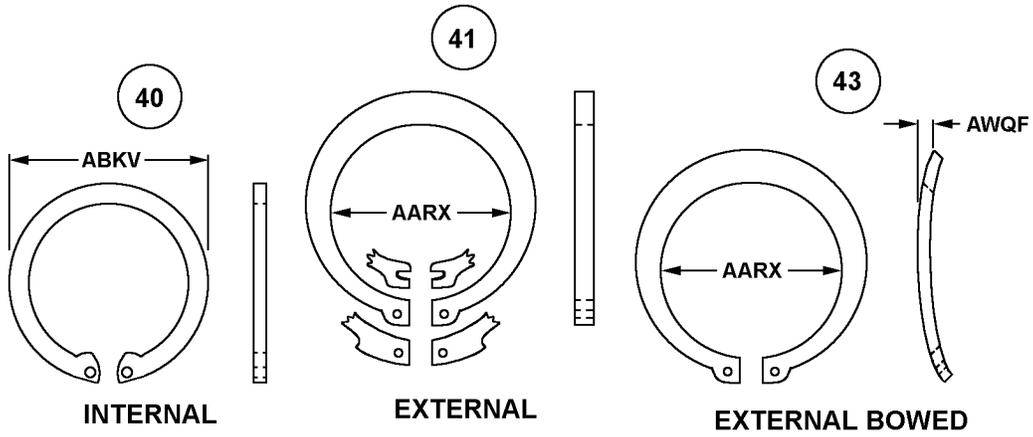
<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
AARX	J	INSIDE DIAMETER
ABKV	J	OUTSIDE DIAMETER
AWQF	J	END PLAY TAKEUP (enter the maximum dimension)
AWQG	J	OVERLAP LENGTH

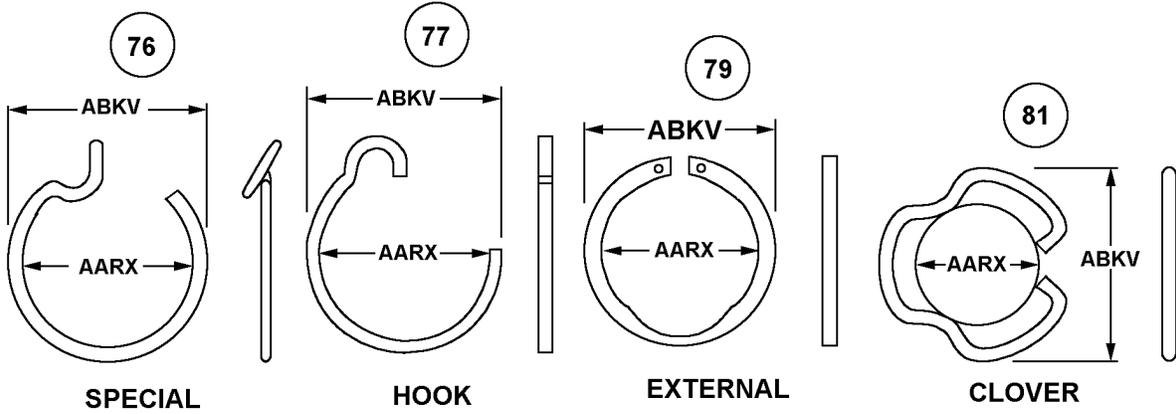
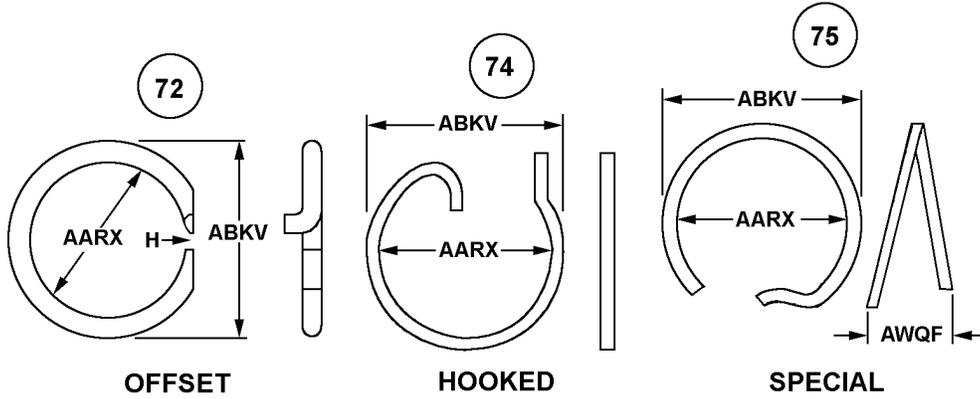
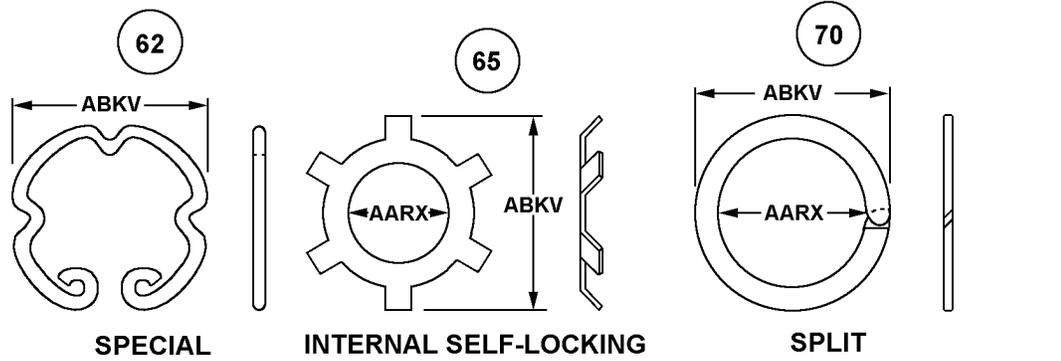
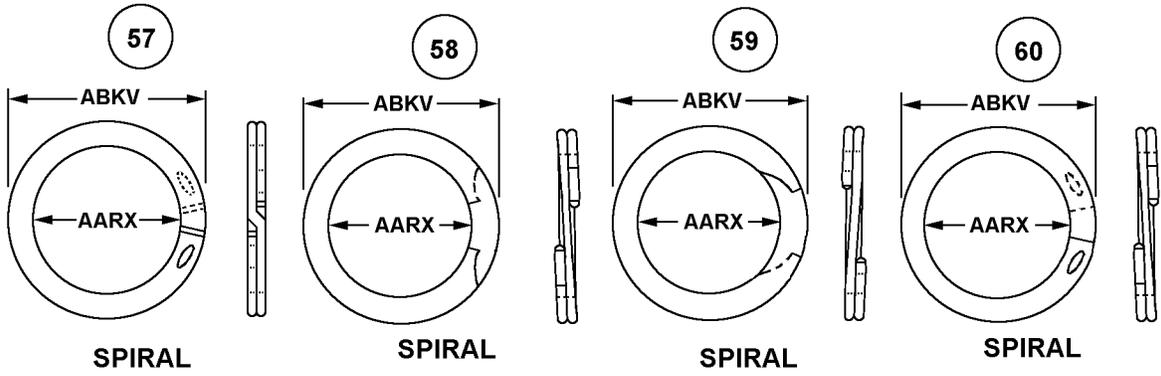
REFERENCE DRAWING GROUP A

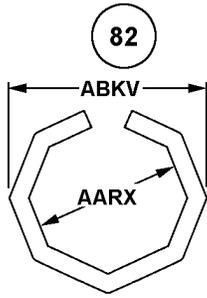
RETAINING RING STYLES



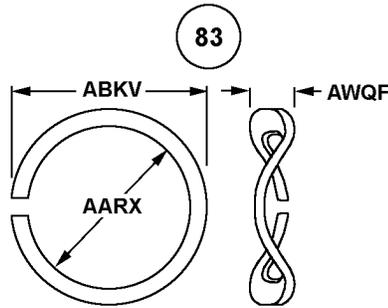




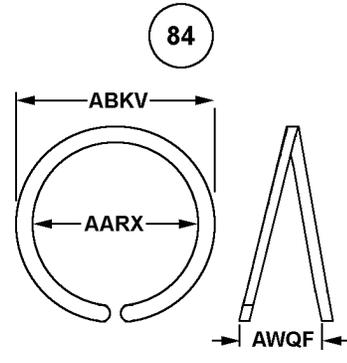




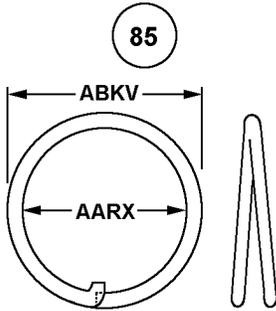
**OCTAGON**



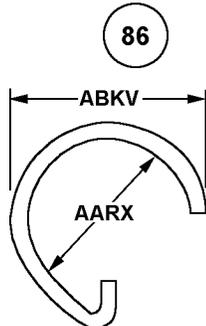
**WAVE**



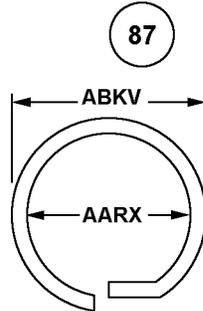
**OFFSET**



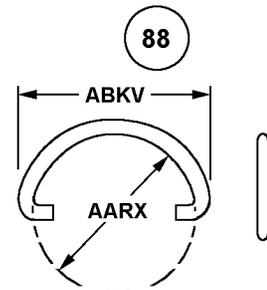
**OFFSET**



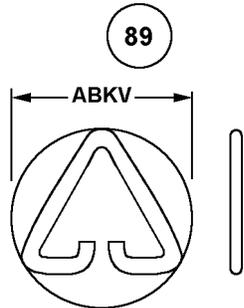
**SPECIAL**



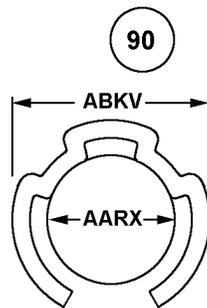
**SPECIAL**



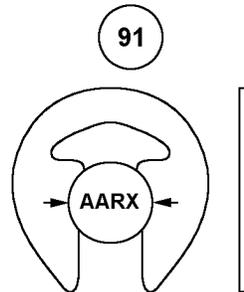
**C**



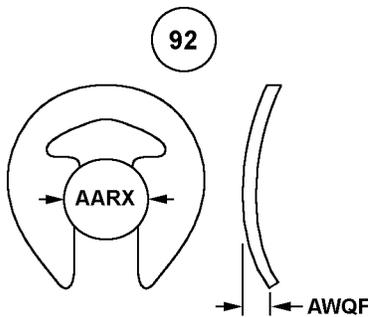
**TRIANGLE**



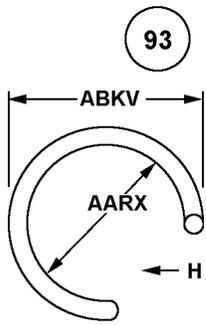
**CLOVER**



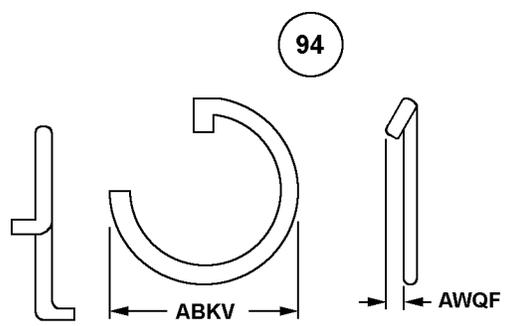
**E**



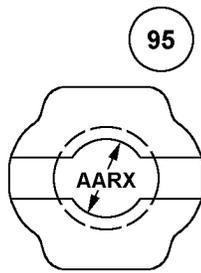
**E BOWED**



**OFFSET**



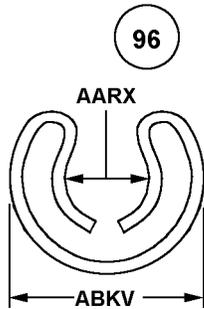
**OFFSET**



95

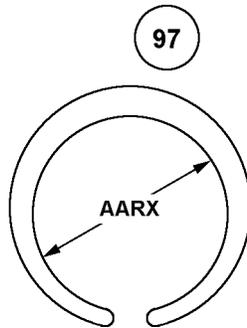
LOOP

NOTE: USE STYLE, 4 RDG-D FOR MATERIAL THICKNESS



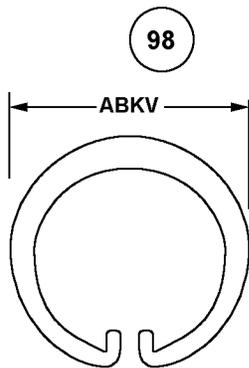
96

SPECIAL



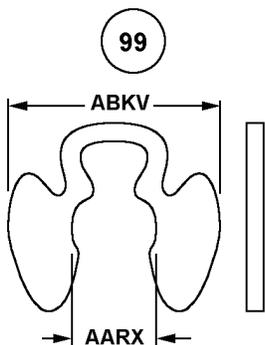
97

TAPER



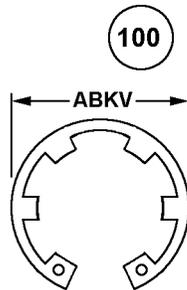
98

HOOKED TAPER



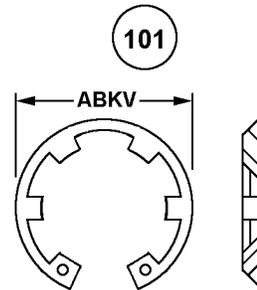
99

EXTERNAL



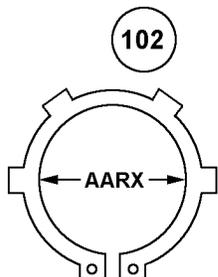
100

INTERNAL



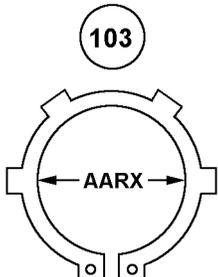
101

INTERNAL



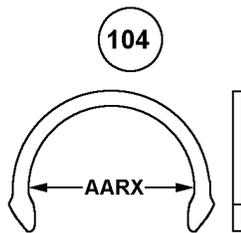
102

EXTERNAL



103

EXTERNAL



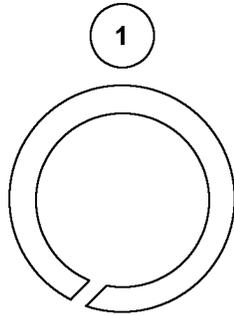
104

EXTERNAL

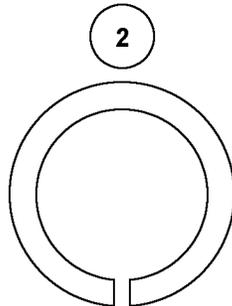
REFERENCE DRAWING GROUP C

RETAINING RING END STYLES

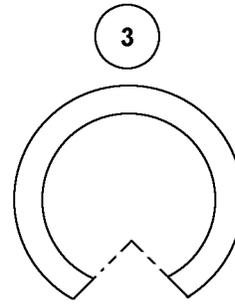
(No Requirements)



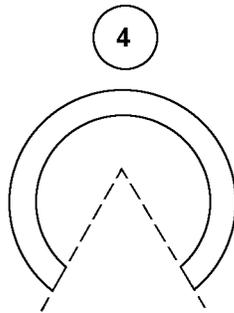
**DIAGONAL PARALLEL**



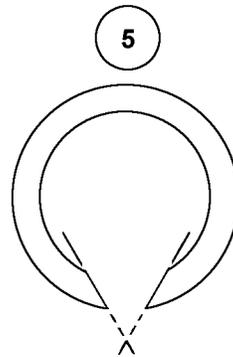
**90 DEG PARALLEL**



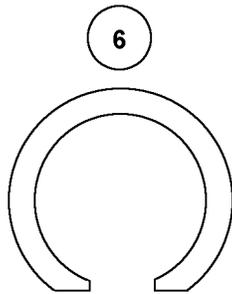
**VERTEX BELOW CENTER**



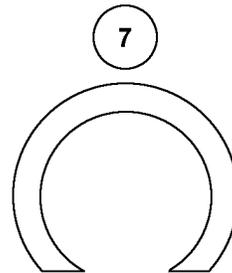
**VERTEX CENTER OR ABOVE**



**VERTEX OUTSIDE PERIPHERY**



**"D" SHAPE  
BELOW INSIDE PERIPHERY**



**"D" SHAPE  
ABOVE INSIDE PERIPHERY**

REFERENCE DRAWING GROUP D Tables  
RETAINING RING CROSS-SECTIONAL STYLES

INDEX OF MASTER REQUIREMENT CODES

NOTE: THE DIMENSIONS OF THE CORNER RADII INDICATED IN STYLES 6, 18, AND 21 MUST BE 1/32 INCH OR MORE. IF LESS THAN 1/32 INCH, USE STYLE 4.

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AJRBJAA0.040\*; AJRBJLA1.1\*; AJRBJAB0.038\$\$JAC0.042\*)

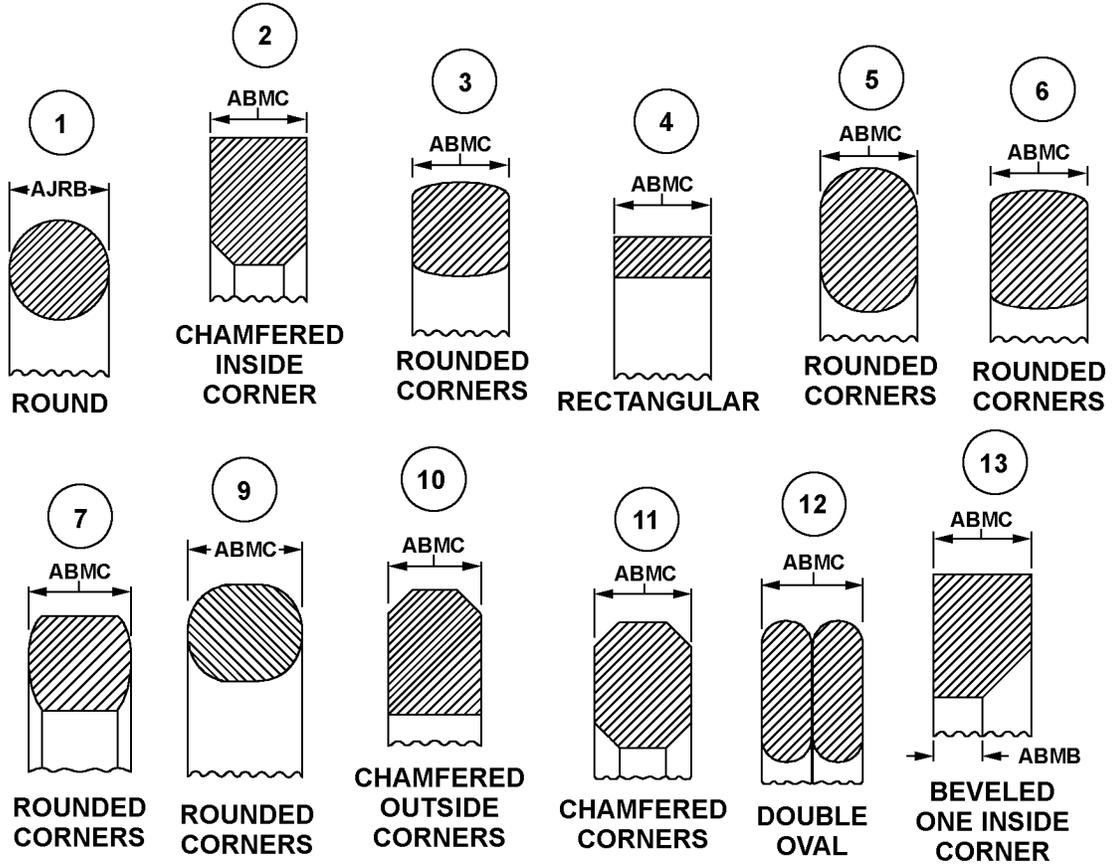
<u>REPLY CODE</u>	<u>REPLY (AA05)</u>
A	INCHES
L	MILLIMETERS

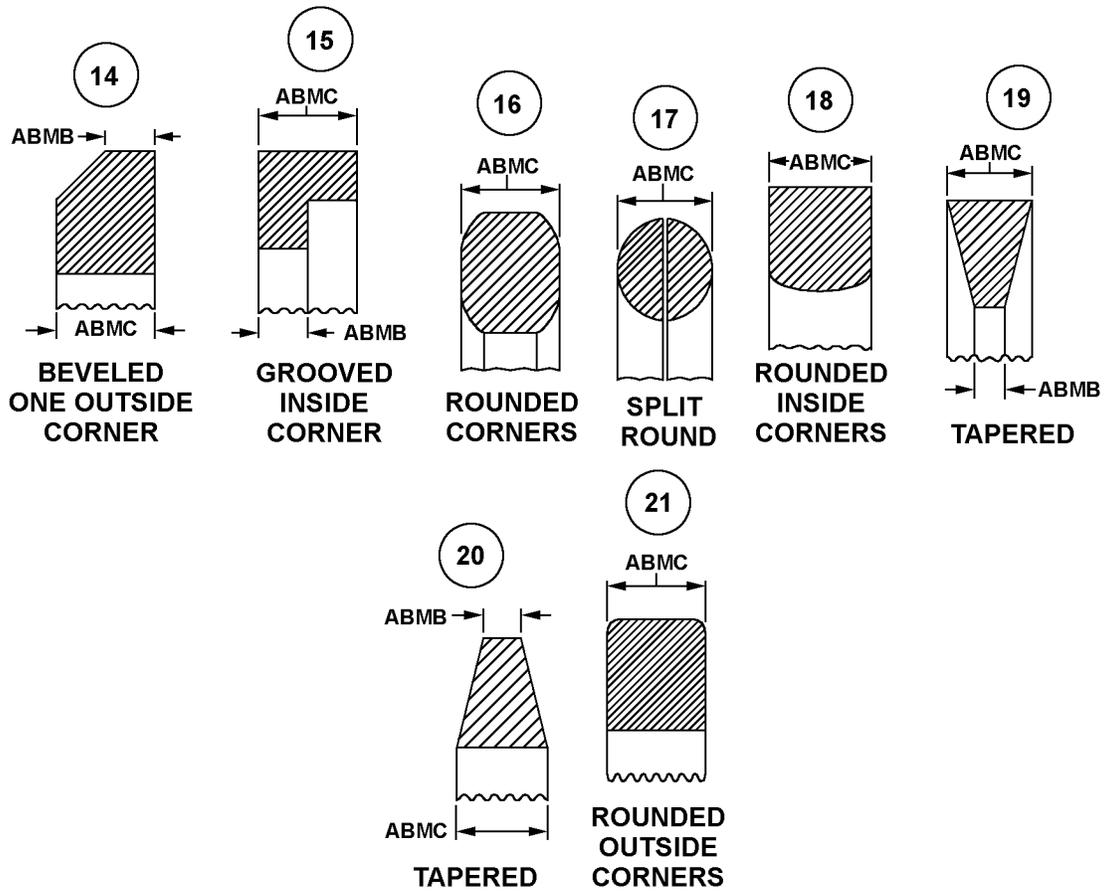
<u>REPLY CODE</u>	<u>REPLY (AC20)</u>
A	NOMINAL
B	MINIMUM
C	MAXIMUM

<u>MRC</u>	<u>Mode Code</u>	<u>Name of Dimension</u>
ABMB	J	MINOR THICKNESS
ABMC	J	MAJOR THICKNESS
AJRB	J	MATERIAL DIAMETER

REFERENCE DRAWING GROUP D

RETAINING RING CROSS-SECTIONAL STYLES





## Technical Data Tables

FRACTION/DECIMAL/MILLIMETER CONVERSION TABLE.....	113
DECIMAL EQUIVALENT OF MINUTES AND SECONDS OF A DEGREE .....	115

FIG T252  
APPENDIX C

FRACTION/DECIMAL/MILLIMETER CONVERSION TABLE

<u>Fractional Equivalent</u>	<u>Decimal</u>	<u>Milli- Meters</u>
1/64"	.0156	0.3969
1/32"	.0312	0.7937
3/64"	.0468	1.1906
1/16"	.0625	1.5875
5/64"	.0781	1.9844
3/32"	.0937	2.3812
7/64"	.1093	2.7781
1/8"	.1250	3.1750
9/64"	.1406	3.5719
5/32"	.1562	3.9687
11/64"	.1718	4.3656
3/16"	.1875	4.7625
13/64"	.2031	5.1594
7/32"	.2187	5.5562
15/64"	.2343	5.9531
1/4"	.2500	6.3500
17/64"	.2656	6.7469
9/32"	.2812	7.1437
19/64"	.2968	7.5406
5/16"	.3125	7.9375
21/64"	.3281	8.3344
11/32"	.3437	8.7312
23/64"	.3593	9.1281
3/8"	.3750	9.5250
25/64"	.3906	9.9219
13/32"	.4062	10.3187
27/64"	.4218	10.7156
7/16"	.4375	11.1125
29/64"	.4531	11.5094
15/32"	.4687	11.9062
31/64"	.4843	12.3031
1/2"	.5000	12.7000

FIG T252  
APPENDIX C

<u>Fractional Equivalent</u>	<u>Decimal</u>	<u>Milli- Meters</u>
33/64"	.5156	13.0868
17/32"	.5312	13.4937
35/64"	.5468	13.8906
9/16"	.5625	14.2875
37/64"	.5781	14.6844
19/32"	.5937	15.0812
39/64"	.6093	15.4781
5/8"	.6250	15.8750
41/64"	.6406	16.2719
21/32"	.6562	16.6687
43/64"	.6718	17.0656
11/16"	.6875	17.4625
45/64"	.7031	17.8594
23/32"	.7187	18.2562
47/64"	.7343	18.6532
3/4"	.7500	19.0500
49/64"	.7656	19.4469
25/32"	.7812	19.8433
51/64"	.7968	20.2402
13/16"	.8125	20.6375
53/64"	.8281	21.0344
27/32"	.8437	21.4312
55/64"	.8593	21.8281
7/8"	.8750	22.2250
57/64"	.8906	22.6219
29/32"	.9062	23.0187
59/64"	.9218	23.4156
15/16"	.9375	23.8125
61/64"	.9531	24.2094
31/32"	.9687	24.6062
63/64"	.9843	25.0031
1"	1.000	25.4000

FIG T252  
APPENDIX C

DECIMAL EQUIVALENT OF MINUTES AND SECONDS OF A DEGREE

<u>Minutes into</u> <u>Decimals of a</u> <u>Degree</u>		<u>Seconds into</u> <u>Decimals of a</u> <u>Degree</u>									
<u>Min.</u>	<u>Deg.</u>	<u>Min.</u>	<u>Deg.</u>	<u>Min.</u>	<u>Deg.</u>	<u>Sec.</u>	<u>Deg.</u>	<u>Sec.</u>	<u>Deg.</u>	<u>Sec.</u>	<u>Deg.</u>
1	0.0167	21	0.3500	41	0.6833	1	0.0003	21	0.0058	41	0.0114
2	0.0333	22	0.3667	42	0.7000	2	0.0006	22	0.0061	42	0.0117
3	0.0500	23	0.3833	43	0.7167	3	0.0008	23	0.0064	43	0.0119
4	0.0667	24	0.4000	44	0.7333	4	0.0011	24	0.0067	44	0.0122
5	0.0833	25	0.4167	45	0.7500	5	0.0014	25	0.0069	45	0.0125
6	0.1000	26	0.4333	46	0.7667	6	0.0017	26	0.0072	46	0.0128
7	0.1167	27	0.4500	47	0.7833	7	0.0019	27	0.0075	47	0.0131
8	0.1333	28	0.4667	48	0.8000	8	0.0022	28	0.0078	48	0.0133
9	0.1500	29	0.4833	49	0.8167	9	0.0025	29	0.0081	49	0.0136
10	0.1667	30	0.5000	50	0.8333	10	0.0028	30	0.0083	50	0.0139
11	0.1833	31	0.5167	51	0.8500	11	0.0031	31	0.0086	51	0.0142
12	0.2000	32	0.5333	52	0.8667	12	0.0033	32	0.0089	52	0.0144
13	0.2167	33	0.5500	53	0.8833	13	0.0036	33	0.0092	53	0.0147
14	0.2333	34	0.5667	54	0.9000	14	0.0039	34	0.0094	54	0.0150
15	0.2500	35	0.5833	55	0.9167	15	0.0042	35	0.0097	55	0.0153
16	0.2667	36	0.6000	56	0.9333	16	0.0044	36	0.0100	56	0.0156
17	0.2833	37	0.6167	57	0.9500	17	0.0047	37	0.0103	57	0.0158
18	0.3000	38	0.6333	58	0.9667	18	0.0050	38	0.0106	58	0.0161
19	0.3167	39	0.6500	59	0.9833	19	0.0053	39	0.0108	59	0.0164
20	0.3333	40	0.6667	60	1	20	0.0056	40	0.0111	60	0.0167

EXAMPLE 1: Convert 11'37" to decimals of a degree. From the left table, 11' = 0.1833 degree. From the right table, 37" = 0.0103 degree. Adding, 11'37" = 0.1833 + 0.0103 = 0.1936 degree.

EXAMPLE 2: Convert 0.1234 degree to minutes and seconds. From the left table, 0.1167 degree = 7'. Subtracting 0.1167 from 0.1234 gives 0.0067. From the right table, 0.0067 = 24" so that 0.1234 = 7'24".

## **FIIG Change List**

FIIG Change List, Effective May 7, 2010

This change replaced with ISAC or and/or coding.